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US-09-355-815-1
; Sequence 1, Application US/09355815
; Publication No. US20030070184A1
; GENERAL INFORMATION:
; APPLICANT: Vogel, Wolfgang
; APPLICANT: Pawsen, Anthony
; TITLE OF INVENTION: LIGANDS FOR DISCOIDIN DOMAIN RECEPTOR TYROSINE KINASES
; TITLE OF INVENTION: AND COMPLEXES THEREOF
; FILE REFERENCE: 11757.36USMO
; CURRENT APPLICATION NUMBER: US/09/355,815
; PRIOR FILING DATE: 1999-09-09
; PRIOR APPLICATION NUMBER: PCT/CA98/00093
; PRIOR FILING DATE: 1998-02-05
; PRIOR APPLICATION NUMBER: 60/041,578
; PRIOR FILING DATE: 1997-02-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 3751
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-355-815-1

Query Match
Best Local Similarity 91.8%; Score 3638.6; DB 9; Length 3751;
Matches 3733; Conservative 0; Mismatches 14; Indels 26; Gaps 6

QY 181 CCCGGGTGAGACGCCCTGGGTCTGCCGGAGAGAGCGATGAGAGGTCTGTGAAGTGGAGCAT 240
Dy 2 CCGGGGTGAGACGCCCTGGGTCTGCCGGAGAGAGCGATGAGAGGTCTGTGAAGTGGAGCAT 21
QY 241 TCATGTAGAGCATGGGGTGTGACATTGAAGAAATGCCAAGAGATGCTGCCCCACCCCTTA 300
Dy 62 TCATGTAGAGCATGGGGTGTGACATTGAAGAAATGCCAAGAGATGCTGCCCCACCCCTTA 121
QY 301 GGCCCGAGAGGATCAGAGAGCATTTGGAGACCAAGAGGCCCTTCATCTTACTTACTGTGCTGCTCT 360
Dy 122 GGCCCGAGAGGATCAGAGAGCATTTGGAGACCAAGAGGCCCTTCATCTTACTTACTGTGCTGCTCT 181
QY 361 TGGTGGCAAGTGAATGCTGACATGAAGAGACATTTTGAATCTGCTCCCAAGTGGCGCAT 420

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Dh 182 TGTGCGAAGTGAAGATGCTGACATGAAGGACATTTGATCCCTGCCAAGTCCGCTATG 241  
QY 421 CCCGCGGCAATGACAGACCCGACCATCCAGACATCTCTGTTCCAGCTCCGCT 480  
Dh 242 CCCGCGGCAATGACAGACCCGACCATCCAGACATCTCTGTTCCAGCTCCGCT 301  
QY 481 CAGATTCACATGCGCGCCGACACAGAGTTGAGACAGTGCAGGAGTGGGGGCTGCT 540  
Dh 302 CAGATTCACATGCGCGCCGACACAGAGTTGAGACAGTGCAGGAGTGGGGGCTGCT 361  
QY 541 GCCCGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600  
Dh 362 GCCCGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 421  
QY 601 TCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660  
Dh 422 TGCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 481  
QY 661 TCTCCGAGACATCCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720  
Dh 482 TCTCCGAGACATCCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 541  
QY 721 ACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780  
Dh 542 ACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 601  
QY 781 ACCTTGGGCGCCCGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840  
Dh 602 ACCTTGGGCGCCCGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 661  
QY 841 TGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Dh 662 TGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 721  
QY 901 ACAACGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960  
Dh 722 ACAACGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 781  
QY 961 CCAATACAGCAATACCGTGGGCGGACATGATGATGATGATGATGATGATGATGATGAT 1020  
Dh 782 CCAATACAGCAATACCGTGGGCGGACATGATGATGATGATGATGATGATGATGATGAT 841  
QY 1021 GTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080  
Dh 842 GTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 901  
QY 1081 ACTATGTGGAGTGAACAACACAGCTTCTCCAGTGTGATGTGATGTGATGTGATGTGAT 1140  
Dh 902 ACTATGTGGAGTGAACAACACAGCTTCTCCAGTGTGATGTGATGTGATGTGATGTGAT 961  
QY 1141 TTGACCGGCTGAGGCGCTTCCAGGCTATGCAAGTCAATGCAATGCAATGCAATGCAAT 1200  
Dh 962 TTGACCGGCTGAGGCGCTTCCAGGCTATGCAAGTCAATGCAATGCAATGCAATGCAAT 1021  
QY 1201 GAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260  
Dh 1022 GAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1081  
QY 1261 AAGGGAGGCGCAATGCGCAACACTAGGGGCAACCTGAGGAGCCGAGAGCCGAGGCTG 1320  
Dh 1082 AAGGGAGGCGCAATGCGCAACACTAGGGGCAACCTGAGGAGCCGAGAGCCGAGGCTG 1141  
QY 1321 TCTCAGTCCCTTGGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
Dh 1142 TCTCAGTCCCTTGGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1201  
QY 1381 GGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440  
Dh 1202 GGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1261  
QY 1441 CGGCACTGGAGGCACTTCCGCGAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500  
Dh 1262 CGGCACTGGAGGCACTTCCGCGAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1321

QY 1501 ACTTCAGACAGTGTGAGCTGAGCCAGAGGCCAGACAGCCGCTGACCAAGGCGAGGGA 1560  
Dh 1322 ACTTCAGACAGTGTGAGCTGAGCCAGAGGCCAGACAGCCGCTGACCAAGGCGAGGGA 1381  
QY 1561 GCCGAGCGGCAATCTCATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1620  
Dh 1382 GCCGAGCGGCAATCTCATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1441  
QY 1621 TTGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1680  
Dh 1442 TTGCTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1501  
QY 1681 TGTGGAAGAGAGACATGAGTTCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1740  
Dh 1502 TGTGGAAGAGAGACATGAGTTCACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1561  
QY 1741 ACCGCGCAAGTCTGAGAGACACCCCGTACAGAGCCCGGCTGCTGCTGCTGCTGCTGCT 1800  
Dh 1562 ACCGCGCAAGTCTGAGAGACACCCCGTACAGAGCCCGGCTGCTGCTGCTGCTGCTGCT 1621  
QY 1801 CCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1860  
Dh 1622 CCCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1681  
QY 1861 GCTTCCTTTCGCGCACTTACGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1920  
Dh 1682 GCTTCCTTTCGCGCACTTACGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1741  
QY 1921 GGGCAACACCCACACACACCCAGGCTTACAGTGGGAGCTATATGAGCTGAGAGCCAG 1980  
Dh 1742 GGGCAACACCCACACACACCCAGGCTTACAGTGGGAGCTATATGAGCTGAGAGCCAG 1801  
QY 1981 GGGCGCGGCTTTCGCGCGCACTTACGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2040  
Dh 1802 GGGCGCGGCTTTCGCGCGCACTTACGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1861  
QY 2041 TTGTACCTTCGAGAGGCGTACCGGGGCGCAACACTATGCTGCTGCTGCTGCTGCTGCT 2100  
Dh 1862 TTGTACCTTCGAGAGGCGTACCGGGGCGCAACACTATGCTGCTGCTGCTGCTGCTGCT 1921  
QY 2101 GGGCAGTGGGGGATGGGCGCCCGCAAGTGGATTTCCCTGATCTGACCTCGCTTCAAG 2160  
Dh 1922 GGGCAGTGGGGGATGGGCGCCCGCAAGTGGATTTCCCTGATCTGACCTCGCTTCAAG 1981  
QY 2161 AGAAGCTGGCGAGGGGCACTTGGGAGTGGACCTGTGTGAGTGAAGAGCCCTCAAG 2220  
Dh 1982 AGAAGCTGGCGAGGGGCACTTGGGAGTGGACCTGTGTGAGTGAAGAGCCCTCAAG 2041  
QY 2221 ATCTGCTAGTCTTGAATTTCCCTTATATGCTGTAAGGAGACCTTGTCTGCTGCTGCTGCT 2280  
Dh 2042 ATCTGCTAGTCTTGAATTTCCCTTATATGCTGTAAGGAGACCTTGTCTGCTGCTGCTGCT 2101  
QY 2281 TCAGATCTTACGCGCAGATGCCACCAAGATGCCAGCTTCTCTGCTGCTGCTGCTGCTGCT 2340  
Dh 2102 TCAGATCTTACGCGCAGATGCCACCAAGATGCCAGCTTCTCTGCTGCTGCTGCTGCTGCT 2143  
QY 2341 ATTTCCTGAAGAGTGAAGATATGATGAGGCTCAAGAGCCCAATATATGCTGCTGCTGCT 2400  
Dh 2144 ATTTCCTGAAGAGTGAAGATATGATGAGGCTCAAGAGCCCAATATATGCTGCTGCTGCTGCT 2203  
QY 2401 TGGGCTGTGTGTCAGAGAGACCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2460  
Dh 2204 TGGGCTGTGTGTCAGAGAGACCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2263  
QY 2461 ACCTCAACAGTCTCTCACTGCGCACAGCTGAGAGACAGGAGCCGAGGGGCGCTGCTGCT 2520  
Dh 2264 ACCTCAACAGTCTCTCACTGCGCACAGCTGAGAGACAGGAGCCGAGGGGCGCTGCTGCTGCT 2323  
QY 2521 GGGAGGCGAGGCTGCGAGGGGCGCAACATAGCTATACCAATGCTGCTGCTGCTGCTGCTGCT 2580  
Dh 2324 GGGAGGCGAGGCTGCGAGGGGCGCAACATAGCTATACCAATGCTGCTGCTGCTGCTGCTGCT 2383

OY	2581	CCGAGTGGCCCTCCGGCAAGGCGCTATCTGGGCCACACTCAACTTTTGTACATGGGACCTGG	2640
Db	2384	CCGAGTCCCTCCCGGCAAGCGCTATCTGGGCCACACTCAACTTTTGTACATGGGACCTGG	2443
OY	2641	CCACGCGGAACCTGCTAGTTGGGGAAATTTTACCATGAAATGCGACACTTTTGGCATGA	2700
Db	2444	CCACGCGGAACCTGCTAGTTGGGGAAATTTTACCATGAAATGCGACACTTTTGGCATGA	2503
OY	2701	GCCGGAACTCTATGCTGGGGGACTATTAACGCTGTGCAGGGCCGGGACAGTGTGCCATTC	2760
Db	2504	GCCGGAACTCTATGCTGGGGGACTATTAACGCTGTGCAGGGCCGGGACAGTGTGCCATTC	2563
OY	2761	GCTGGATGGCCCTGGGAGTGCATTCCTCATGGGGAACTTACAGACTGCGAGTGTGGG	2820
Db	2564	GCTGGATGGCCCTGGGAGTGCATTCCTCATGGGGAACTTACAGACTGCGAGTGTGGG	2623
OY	2821	CCTTTGTGTGACCTGTGTGGAGGCGTGATGCTGTGAAGGCCACGCCCTTGGGACG	2880
Db	2624	CCTTTGTGTGACCTGTGTGGAGGCGTGATGCTGTGAAGGCCACGCCCTTGGGACG	2683
OY	2881	TCACCGACGACGAGGTCAATCGAAGACGCGGGGAGTTCTTCCGGACACAGGCGCGCAG	2940
Db	2684	TCACCGACGACGAGGTCAATCGAAGACGCGGGGAGTTCTTCCGGACACAGGCGCGCAG	2743
OY	2941	TGTACTCTCCCGCGCCGCTGCTGCGCGACAGGCGCTATATGACTGATGCTTGGTGT	3000
Db	2744	TGTACTCTCCCGCGCCGCTGCTGCGCGACAGGCGCTATATGACTGATGCTTGGTGT	2803
OY	3001	GGAGCCGGGAGTCTGAGCAGGACACCCCTTTCCACAGCTGCAMCGGTTCTTGGCAGAG	3060
Db	2804	GGAGCCGGGAGTCTGAGCAGGACACCCCTTTCCACAGCTGCAMCGGTTCTTGGCAGAG	2863
OY	3061	ATGCACCTACACAGGCTGTGAATTCACACATCCAGCTGCCCTCCCTGAGGAGTGAATCAG	3120
Db	2864	ATGCACCTACACAGGCTGTGAATTCACACATCCAGCTGCCCTCCCTGAGGAGTGAATCAG	2923
OY	3121	GGGAAAGCCAGTACACTTAAACAAAGAGACAAATGGACCTGTG--CCCTTCCCTCCCG	3179
Db	2924	GGGAAAGCCAGTACACTTAAACAAAGAGACAAATGGACCTGTG--CCCTTCCCTCCCG	2983
OY	3180	ACAGCCCATCACTCTATATAGAGGCACTGAGACGTGCGAGTGGGCTGGGCCACCCAGGGA	3239
Db	2984	ACAGCCCATCACTCTATATAGAGGCACTGAGACGTGCGAGTGGGCTGGGCCACCCAGGGA	3039
OY	3240	GCTATGCCCCCTTCTCCCTCTCTGAGACACTCTCATGTGCCCTTCTGTCTTCTCTTC	3299
Db	3040	GCTATGCCCCCTTCTCCCTCTCTGAGACACTCTCATGTGCCCTTCTGTCTTCTCTTC	3099
OY	3300	CTAAGACCCCTGTGCGGCCACCCAGCTGGTCTGTGTGATGGATCTCTTCCACCCCTCTC	3359
Db	3100	CTAAGACCCCTGTGCGGCCACCCAGCTGGTCTGTGTGATGGATCTCTTCCACCCCTCTC	3159
OY	3360	TAGCCATCCCTTGGGGAGAGGTTAGGATATGAGACATGAGACATGGCCCAT	3419
Db	3160	TAGCCATCCCTTGGGGAGAGGTTAGGATATGAGACATGAGACATGGCCCAT	3219
OY	3420	GGAGCACCTTGGGCCCACTGGAGACACTGATTTCTGGAGAGTGTGCTGCG--CCCGAGCT	3478
Db	3220	GGAGCACCTTGGGCCCACTGGAGACACTGATTTCTGGAGAGTGTGCTGCG--CCCGAGCT	3279
OY	3479	TCTCTCCCTGTGCACACACTGGACCCCACTGGCTAGAAATCTGGGGGTGAGAGAGCA	3538
Db	3280	TCTCTCCCTGTGCACACACTGGACCCCACTGGCTAGAAATCTGGGGGTGAGAGAGCA	3339
OY	3539	GAGAGAGAGAAATATTTCTCTGTCTGCTGCCTGTACTTTCCTCCACACTTGGGCTCT	3598
Db	3340	GAGAGAGAGAAATATTTCTCTGTCTGCTGCCTGTACTTTCCTCCACACTTGGGCTCT	3399
OY	3599	TCTCTCTTCATCACTGAAACACTGGACCTGGGGGTAGCCCGCCACAGCCCTCAGTGA--	3657
Db	3400	TCTCTCTTCATCACTGAAACACTGGACCTGGGGGTAGCCCGCCACAGCCCTCAGTGA--	3459
OY	3658	CCCCCACTTCCCACTTGAGCTGTGTAGCTAGAACTTCTTAAAGCCATATAGCTTTGTGG	3717

Db	3460	CCCCACCTCCCACTGGAGTCTTAGCTAGAACTTCTCTAGGCTTACGTTCTCTGTG	3519
QY	3718	GAGTAAATATTTGGATTGGGGGAAAGAGGACCAAGCCCATAGCCTTGGGGTTGAC	3777
Db	3520	GAGTAAATTTGGATTGGGGGAAAGAGGACCAAGCCCATAGCCTTGGGGTTGAC	3579
QY	3778	ATCTCTAGTGAAGCTGCCACATGATTTTCTATATCATCTTGGGGTTGTACATTTTGG	3837
Db	3580	ATCTCTAGTGAAGCTGCCACATGATTTTCTATATCATCTT-GGGTTGTACATTTTGG	3638
QY	3838	GGGGGAGAGACACAGATTTTACATATATATATGAGACTAGTTAGGCATTTTAAACC	3897
Db	3639	GGGGGAGAGACACAGATTTTACATATATATATGAGACTAGTTAGGCATTTTAAACC	3698
QY	3898	CCTGACATCAGGAGGATTAATATTAAGCTGGAGTTTCCACAAAAAATAA	3950
Db	3699	CCTGACATCAGGAGGATTAATATTAAGCTGGAGTTTCCACAAAAAATAA	3751

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RESULT 2
US-10-060-036-4549
; Sequence 4549, Application US/10060036
; Publication No. US20030073144A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Persing, David H.
; APPLICANT: Hepler, William T.
; APPLICANT: Jiang, Yugu
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER
; FILE REFERENCE: 210121.566
; CURRENT APPLICATION NUMBER: US/10/060,036
; CURRENT FILING DATE: 2002-01-30
; NUMBER OF SEQ ID NOS: 4560
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4549
; LENGTH: 3849
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-060-036-4549

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[illegible]

Dp	384	GGTGGCAAGTGGAGATGCTGACATGAAGGACATTTGATCTGCGCAAGTGGCCGTATGC	443
QY	422	CCTGGGCATGCAGAGACCGGACCATCCAGACAGTACATCTTGTCTTCAGCTCCTGTGC	481
Dp	444	CCTGGGCATGCAGAGACCGGACCATCCAGACAGTACATCTTGTCTTCAGCTCCTGTGC	503
QY	482	AGATTCCACTGCCCCGCCCCACAGCAGAGTTGGAGAGCAGTGCACGGGATGGGGCCTGGTG	541
Dp	504	AGATTCCACTGCCCCGCCCCACAGCAGAGTTGGAGAGCAGTGCACGGGATGGGGCCTGGTG	563
QY	542	CCCCGACAGGTGCGGTGTTTCCCAAGAGAGAGTACTTGCAGTGGGATCTTCAACGACT	601
Dp	564	CCCCGACAGGTGCGGTGTTTCCCAAGAGAGAGTACTTGCAGTGGGATCTTCAACGACT	623
QY	602	CCACTGGTGGCTCTGGTGGGACCCCAAGGAGCGCATGCGGGGGCTTGGGCAGAGTT	661
Dp	624	GCACCTGGTGGCTCTGGTGGGACCCCAAGGAGCGCATGCGGGGGCTTGGGCAGAGTT	683
QY	662	CTCCCGAGATCAGCGGCTGCGTTACTCCCGGAGATGTCGCGCGTGGATGGCGTGGAGA	721
Dp	684	CTCCCGAGATCAGCGGCTGCGTTACTCCCGGAGATGTCGCGCGTGGATGGCGTGGAGA	743
QY	722	CCGCTGGGGGTACAGAGTGTATCTCAGCAATAGAGACCTCTAGAGGATGGTGTCTAAG	781
Dp	744	CCGCTGGGGGTACAGAGTGTATCTCAGCAATAGAGACCTCTAGAGGATGGTGTCTAAG	803
QY	782	CCTTGGGCCCCCATGGTGTGCGGACGTGGTTCGCTTACCCCGCGGGCTGACCGGGCAT	841
Dp	804	CCTTGGGCCCCCATGGTGTGCGGACGTGGTTCGCTTACCCCGCGGGCTGACCGGGCAT	863
QY	842	GAGGTGTCGTGTGGGGGTAGAGCTTAAGGCTGCTCTGAGAGAGTGAATCTGTCTTA	901
Dp	864	GAGGTGTCGTGTGGGGGTAGAGCTTAAGGCTGCTCTGAGAGAGTGAATCTGTCTTA	923
QY	902	CACCGCCCTGTGGGGGAGACAATGATTTATCTGAGGCGGTATCTCAACGACTCCAC	961
Dp	924	CACGTGCCCTGTGGGGGAGACAATGATTTATCTGAGGCGGTATCTCAACGACTCCAC	983
QY	962	CTATGACGAGATACCGTGGGAGATGACATGAGGGGTCTGGGCCAGCTGCAGATGG	1021
Dp	984	CTATGACGAGATACCGTGGGAGATGACATGAGGGGTCTGGGCCAGCTGCAGATGG	1043
QY	1022	TGTGTGGGGGTGGATGACTTTAGAGAGAGTCAGAGCTGCGGGTCTTGCCAGGCTATGA	1081
Dp	1044	TGTGTGGGGGTGGATGACTTTAGAGAGAGTCAGAGCTGCGGGTCTTGCCAGGCTATGA	1103
QY	1082	CTATGTGGGATGAGACAACACACACTTCTCCAGTGGGATGAGAGTGGAGTTGTAAT	1141
Dp	1104	CTATGTGGGATGAGACAACACACACTTCTCCAGTGGGATGAGAGTGGAGTTGTAAT	1163
QY	1142	TGACCGGCTGAGGGCTTCCAGGCTATGACAGGTCCACTGTAAACAATGACACAGCTGG	1201
Dp	1164	TGACCGGCTGAGGGCTTCCAGGCTATGACAGGTCCACTGTAAACAATGACACAGCTGG	1223
QY	1202	AGCCGCTCTGCTTGGCGGGGTGGAATGCTTCGCGGCTGGCCCTGECATGGCCTGGGA	1261
Dp	1224	AGCCGCTCTGCTTGGCGGGGTGGAATGCTTCGCGGCTGGCCCTGECATGGCCTGGGA	1283
QY	1262	GGGGGAGCCCATGGGCGCAACAACCTAAGGGGGGACAACCTGGGGGACCCCAAGGCCCGGGCTGT	1321
Dp	1284	GGGGGAGCCCATGGGCGCAACAACCTAAGGGGGGACAACCTGGGGGACCCCAAGGCCCGGGCTGT	1343
QY	1322	CTCAGTGGCCCTTGGCGGGCGGTGTGCTGCTTCTCAGATGAGCGCTTCCCTTGGGGG	1381
Dp	1344	CTCAGTGGCCCTTGGCGGGCGGTGTGCTGCTTCTCAGATGAGCGCTTCCCTTGGGGG	1403
QY	1382	GCCCTGGTACTCTTACAGCAAAATCTCTTCATCTGATGTGTGAACAATTCCTCTCC	1441
Dp	1404	GCCCTGGTACTCTTACAGCAAAATCTCTTCATCTGATGTGTGAACAATTCCTCTCC	1463
QY	1442	GGACATGGGAGGACATTCGCCGCAAGCCCTGTGGCGCTGTGGCCACTGCCACCA	1501

Dp	1464	GGCACTGGGAGGCACTCCCGCCAGAGCCCTCGTGGTGGCCCTGGCCCACTCCCAACA	1523
QY	1502	CTTCAGCAGCTTGGAGCTTGAGACCCAGAGGCCAGCAGCCCTGGCCAAAGCCGAGGGAG	1561
Dp	1524	CTTCAGCAGCTTGGAGCTTGAGACCCAGAGGCCAGCAGCCCGTGGCCAAAGCCGAGGGAG	1583
QY	1562	CCGAGCGCCACCCATCCGAGCTGGCTGGTGGCCATCATCTGCTCCCTGCTGCTCATAT	1621
Dp	1584	CCGAGCGCCACCTCCATCCGAGCTGGCTGGTGGCCATCATCTGCTCCCTGCTGCTCATAT	1643
QY	1622	TGCCCTCATGCTCTGGCGCTGCACTGGCGCAGAGCTCTCAGCAAGGCTGAAACGAGGCT	1681
Dp	1644	TGCCCTCATGCTCTGGCGCTGCACTGGCGCAGAGCTCTCAGCAAGGCTGAAACGAGGCT	1703
QY	1682	GTGGAGAGAGAGCTGACGAGTTACACTCTCTGTCCCTGGGAGACATATCTCATACAA	1741
Dp	1704	GTGGAGAGAGAGCTGACGAGTTACACTCTCTGTCCCTGGGAGACATATCTCATACAA	1765
QY	1742	CGCGCCAGTCTCTAGAGAGCCACCCCGCTACCAGAGCCCGCGCTCTGTGGAAATCCGC	1801
Dp	1764	CGCGCCAGTCTCTAGAGAGCCACCCCGCTACCAGAGAGCCCGCGCTCTGTGGAAATCCGC	1823
QY	1802	CCACTCCGCTCCCTGTGTCCCAATAGGCTGTGCGTTGCTGCTCATATCAGGCTACCG	1861
Dp	1824	CCACTCCGCTCCCTGTGTGTCCCAATAGGCTGTGCGTTGCTGCTCATATCAGGCTACCG	1854
QY	1862	CCTCCTCTGGCACTTACGCCCGTCCCTCTCAGAGCCCGGCGCCCCACACCGCGCTG	1921
Dp	1885	-----	1854
QY	1922	GGCCAAACCCACCAACCCAGGCTTACAGTGGGACTATATGAGCCTGAGAACCCAG	1981
Dp	1855	-----GCTACAGTGGGAGACTATATGAGCCTGAGAACCCAG	1892
QY	1982	CGCCCGGCTTGTGCCCCCACTCCCAAGAGAGGTCCCGCATATATGCGAGGCTGACAT	2041
Dp	1893	CGCCCGGCTTGTGCCCCCACTCCCAAGAGAGGTCCCGCATATATGCGAGGCTGACAT	1952
QY	2042	TGTTACCTGCAAGGCGCTCACCGGGGGGCAACCTATGCTGCTGCACTGCCCCAG	2101
Dp	1953	TGTTACCTGCAAGGCGCTCACCGGGGGGCAACCTATGCTGCTGCACTGCCCCAG	2012
QY	2102	GGCAGTGGGGATGGGCCCCCAAGAGTGGATTTCCCTGATCTGACCTCGCTTCAAGA	2161
Dp	2013	GGCAGTGGGGATGGGCCCCCAAGAGTGGATTTCCCTGATCTGACCTCGCTTCAAGA	2072
QY	2162	GAACTTGGGCAAGGGCAGTTGGGAGGTCACCTGTGTGAGGTCCAGACACCTCTAAGA	2221
Dp	2073	GAACTTGGGCAAGGGCAGTTGGGAGGTCACCTGTGTGAGGTCCAGACACCTCTAAGA	2132
QY	2222	TCTGCTAGTCTTATTTCCCTTAAATGTGCTGAAGGACACCTTGTGCTGATGCTG	2281
Dp	2133	TCTGCTAGTCTTATTTCCCTTAAATGTGCTGAAGGACACCTTGTGCTGATGCTG	2192
QY	2282	CAGATCTTACGCGCAATGCGCACCAAGAAATGCCAGCTTCTCTTCTCCAGAAATGA	2341
Dp	2193	CAGATCTTACGCGCAATGCGCACCAAGAAATG-----CCAGAAATGA	2234
QY	2342	TTTCTCTAAAGAGGTGAAGATCATGTGAGGCTCAAGAGCCCAACATCATGTGGCTGCT	2401
Dp	2235	TTTCTCTAAAGAGGTGAAGATCATGTGAGGCTCAAGAGCCCAACATCATGTGGCTGCT	2294
QY	2402	GGGCGTGTGTGTGAGAGACGACCCCTCTGATGATTACTGATCTACATACATGGAAGGCGA	2461
Dp	2295	GGGCGTGTGTGTGAGAGACGACCCCTCTGATGATTACTGATCTACATACATGGAAGGCGA	2354
QY	2462	CCTCAACCAAGTTCTCTAGTGCACCAACAGCTGGAGAGCAAGGACAGCCGAGGGCCCTCG	2521
Dp	2355	CCTCAACCAAGTTCTCTAGTGCACCAACAGCTGGAGAGCAAGGACAGCCGAGGGCCCTCG	2414
QY	2522	GGAGGGGCAAGGTCGAGAGGGGCCCAACATCAGTACCCAAATGCTGCTGATGTGGAGC	2581
Dp	2415	GGAGGGGCAAGGTCGAGAGGGGCCCAACATCAGTACCCAAATGCTGCTGATGTGGAGC	2474

QY	2582	CCAGATCGCCTCCGGCAGCGCGTATCTGGCCACACTGAACCTTTGTACATCGGGACCTGGC	2641
Db	2475	CCAGATCGCCTCCGGCAGCGCGTATCTGGCCACACTGAACCTTTGTACATCGGGACCTGGC	2534
QY	2642	CACGGGAACTGCGCTTAGTTGGGGAAATTTCCACTCCATAAATTCGAGACTTTGGCATAG	2701
Db	2535	CACGGGAACTGCTTAGTTGGGGAAATTTCCACTCCATAAATTCGAGACTTTGGCATAG	2594
QY	2702	CCGGAACCTCTATGCTGGGAGCTATTACCGGTGTGCAGGGCCGGGAGTGTCCCATCCG	2761
Db	2595	CCGGAACCTCTATGCTGGGAGCTATTACCGGTGTGCAGGGCCGGGAGTGTCCCATCCG	2654
QY	2762	CTGGATGGCGCTGGGAGTGCATCCCATATGGGGAAAGTTCACAGCTGAGATGCAGTGTGGC	2821
Db	2655	CTGGATGGCGCTGGGAGTGCATCCCATATGGGGAAAGTTCACAGCTGAGATGCAGTGTGGC	2714
QY	2822	CTTTGATGTGACCCCTGTGGAGAGTGCATGCTCTGTAGGGGCCAGCCCTTTGGGACGCT	2881
Db	2715	CTTTGATGTGACCCCTGTGGAGAGTGCATGCTCTGTAGGGGCCAGCCCTTTGGGACGCT	2774
QY	2882	CACGAGCAGAGAGTGCATCGAAGACCGCGGGAGTTCTTCCGGGACACAGGCGCGGACGT	2941
Db	2775	CACGAGCAGAGAGTGCATCGAAGACCGCGGGAGTTCTTCCGGGACACAGGCGCGGACGT	2834
QY	2942	GTACTGTGCCCCGGCGCCCTGCTGCTCCGCGCAGAGCCCTATATAGACTGATCTTGGTCTG	3001
Db	2835	GTACTGTGCCCCGGCGCCCTGCTGCTCCGCGCAGAGCCCTATATAGCTGATGCTTGGTCTG	2894
QY	3002	GAGCGGGAGTGTGAGCGAGCGACACCCCTTTCCACAGTGCATGGTGTCCCTGGAGAGGA	3061
Db	2895	GAGCGGGAGTGTGAGCGAGCGACACCCCTTTCCACAGTGCATGGTGTCCCTGGAGAGGA	2954
QY	3062	TGCACCTCAACGCGTGTGTGAATCACACATCCAGTGCCTCCCTCCAGAGAGTGAATCCAGG	3121
Db	2955	TGCACCTCAACGCGTGTGTGAATCACACATCCAGTGCCTCCCTCCAGAGAGTGAATCCAGG	3014
QY	3122	GGAAGCCAGTACACTAAACAAAGAGACACATGGCACTGCGCCCTTCCCTCCGAC	3181
Db	3015	GGAAGCCAGTACACTAAACAAAGAGACACATGGCACTGCGCCCTTCCCTCCGAC	3074
QY	3182	AGCCATCACCTCTAAATAGAGGCGAGTGCATGAGTGGGTGGGCGCCACCCAGGAGAC	3241
Db	3075	AGCCATCACCTCTAAATAGAGGCGAGTGCATGAGTGGGTGGGCGCCACCCAGGAGAC	3134
QY	3242	TGATGCCCTTCTCCCTGCTGAGACACACTCTATGCCCTCTCTGTTCTTCCCTGCT	3301
Db	3135	TGATGCCCTTCTCCCTGCTGAGACACACTCTATGCCCTCTCTGTTCTTCCCTGCT	3194
QY	3302	AGAAAGCCCTGTGCGCCACCACCGAGTGTCTGTGTGATGGGATCCTCTCCACCCCTCTTA	3361
Db	3195	AGAAAGCCCTGTGCGCCACCACCGAGTGTCTGTGTGATGGGATCCTCTCCACCCCTCTTA	3254
QY	3362	GCCATGCCCTTGGGGAAGGTTGGGGAAGAAATATAGATATGACACTGGACATGGCCCATTTGG	3421
Db	3355	GCCATGCCCTTGGGGAAGGTTGGGGAAGAAATATAGATATGACACTGGACATGGCCCATTTGG	3314
QY	3422	AGCAGCTGGGCCCCAGCTGAGCAACACTGATTCCTGGAGAGTGGGTCG-CGCCAGTTC	3480
Db	3315	AGCAGCTGGGCCCCAGCTGAGCAACACTGATTCCTGGAGAGTGGGTCGCGCCAGTTC	3374
QY	3481	TCTCTCCCTGTACACACTGGAGCCCACTGGCTGAGATCTGGGGGTGAGAGAGACAAGA	3540
Db	3375	TCTCTCCCTGTACACACTGGAGCCCACTGGCTGAGATCTGGGGGTGAGAGAGACAAGA	3434
QY	3541	AGGAGAGAAATGTTTCCCTGTGTGCGCTGCTGTACTTGTCTCAAGCTTGGGCTTCTTC	3600
Db	3435	AGGAGAGAAATGTTTCCCTGTGTGCGCTGCTGTACTTGTCTCAAGCTTGGGCTTCTTC	3494
QY	3601	CTCTCCATACCTGAAACACTGGAGCTTGGGGGTAGCGCCGCCACAGCCCTGATGACCC	3660
Db	3495	CTCTCCATACCTGAAACACTGGAGCTTGGGGGTAGCGCCGCCACAGCCCTGATGACCC	3554

QY	3661	CCACATCCCACTTGAGACGCTGTGACGTAACTCTGAAACCCATACGTTCTGTGGAG	3720
Db	3555	CCACTGCCAATTGCACGCTTGTGACGTAACTCTCTAAACCCATACGTTCTGTGGAG	3614
QY	3721	TAAATATTGGGATTGGGGGGAAGAGGAGCAACGGCCATAGCCTTGGGGTTGGACATC	3780
Db	3615	TAAATATTGGGATTGGGGGGAAGAGGAGCAACGGCCATAGCCTTGGGGTTGGACATC	3674
QY	3781	TCTAGTAGTGGCCACATGATTTTCTATATACACTGGGGGTTGTACATTTTGGG	3840
Db	3675	TCTAGTAGTGGCCACATGATTTTCTATATACACTGGGGGTTGTACATTTTGGG	3734
QY	3841	GGAAGACACACGATTTTACACTAATATATGAGACCTAGCCTGAGCAATTTAATCCCT	3900
Db	3735	GGAAGACACACGATTTTACACTAATATATGAGACCTAGCCTGAGCAATTTAATCCCT	3794
QY	3901	GCAGTAGCAGGTAAATATAAGGTGTGATTTCCACAAAAA	3953
Db	3795	GCAGTAGCAGGTAAATATAAGGTGTGATTTCCACAAAAA	3847

### RESULT 3

US-09-223-490-3  
; Sequence 3, Application US/09223490  
; Patent No. US20020147325A1  
; GENERAL INVENTOR:

**GENERAL INFORMATION:**

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**CORRESPONDENCE ADDRESS:**

ADDRESSEE: Genentech, Inc.  
STREET: 460 Point San Bruno

CITY: South San Francisco

STATE: California  
COUNTRY: USACOMPL: 03F  
ZIP: 94080

```

; COMPUTER READABLE FORM:
; MEDITIM TYPE: 5 05 100 300 400 500 600 700 800 900 1000

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; MEDIUM LIFE: 3:25 INCH, 500 MB
COMPUTER: IBM PC compatible
;

```

OPERATING SYSTEM: PC-DOS/MS-DOS

```

SOFTWARE: palin (genentech)
CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US/09/223,490

CLASSIFICATION

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/170,558  
FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Hasak, Janet E.  
REGISTRATION NUMBER: 28-616

REFERENCE/DOCKET NUMBER: 854C1

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415/225-1896

TELEFAX: 415/952-9881

TELEX: 910/371-7168  
INFORMATION FOR SEQ ID NO: 3.

SEQUENCE CHARACTERISTICS:

LENGTH: 3637 bases  
TYPE: nucleic acid

STRANDEDNESS: single

TOPOLGY  
; TS-09-223-490-3

Query Match	87.18;	Score 3451;	DB 10;	Length 3637;
Best Local Similarity	87.08;	Score 3449;	DB 10;	Length 3637;

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    100% Local Identity, 57.0%, Fied. NO. 0;
    Matches 3589; Conservative 0; Mismatches 5; Indels 105; Gaps 3;

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256 GTTGGACTTGAAGGATGCCAAGAGATGCTGCCCCACCCTTAGGCCGAGGATCAG 315



Db	17	GTGGACTTGAAGGATGCGAAGATGCTGCCCCACCCCTTAGCCGAGGATCAG	76
OY	316	GAGCTATGGGACCAAGGCCCTGTCACTCTTACTGCTGCTCTTGGTGGCAAGTGAG	375
Db	77	GAGCTATGGGACCAAGGCCCTGTCACTCTTACTGCTGCTCTTGGTGGCAAGTGAG	136
OY	376	ATGCGACATGAAGGACATTTGATCCCGCCCAAGTCCCGCTAAGCCCTGGGCATCAG	435
OY	137	ATGCGACATGAAGGACATTTGATCCCGCCCAAGTCCCGCTAAGCCCTGGGCATCAG	196
OY	436	ACCGGACATCCCAAGACATGACATCTCTTCCAGCTCTGATAGATTCACATCGCG	495
Db	137	ACCGGACATCCCAAGACATGACATCTCTGCTTCCAGCTCTGATAGATTCACATCGCG	256
OY	436	CCCGCCACAGCAGGTTGGAGAGACAGTGAACGGGATGGGCCGTGTGCCCGCAGGCTCG	555
Db	257	CCCGCCACAGCAGGTTGGAGAGACATGAACGGGATGGGCCGTGTGTGCCCGCAGGCTCG	316
OY	556	TGTTTCCCAAGGAGGAGATGATCTTGCAGTGGATCTACACAGATCCACTGTGTGCTC	615
Db	317	TGTTTCCCAAGGAGGAGATGATCTTGCAGTGGATCTACACAGATCCACTGTGTGCTC	376
OY	616	TGTTGGGACCCAGGAGGAGCGCATGCGCGGGGCGCTGGGCAAGGATTCCTCCGAGGTACC	675
Db	377	TGTTGGGACCCAGGAGGAGCGCATGCGCGGGGCGCTGGGCAAGGATTCCTCCGAGGTACC	436
OY	676	GCGTCGTTACTCCCGGGATGGTCGCGCGCTGATGGGCTGGAAGAACCGCTGGGGTCAG	735
Db	437	GCGTCGTTACTCCCGGGATGGTCGCGCGTGGATGGGCTGGAAGAACCGCTGGGGTCAG	496
OY	736	AGCGATATTCAGGCAATAGAGACCCCTGAGGAGTGTGCTGAAGACCTTGGGCCCCCA	795
Db	437	AGCGATATTCAGGCAATAGAGACCCCTGAGGAGTGTGCTGAAGACCTTGGGCCCCCA	556
OY	796	TGTTTCCCGACTGGTTCGCTTCTACCCCGGCGCTGACCGGGTCAATGATGTCATGTC	855
Db	557	TGTTTCCCGACTGGTTCGCTTCTACCCCGGCGCTGACCGGGTCAATGATGTCATGTC	616
OY	856	GGGTAGACTCTAATGCTGCTCTGCTGAGGAGATGACCTCTGCTTACAACCGCCCTGTGG	915
Db	617	GGGTAGACTCTAATGCTGCTCTGCTGAGGAGATGACCTCTGCTTACAACCGCCCTGTGG	676
OY	916	GGCGACAAATTAATTAATCTAGAGCGCGGTACCTACACAGATCCACCTATGACGACATA	975
Db	677	GGCGACAAATTAATTAATCTAGAGCGCGGTACCTACACAGATCCACCTATGACGACATA	736
OY	976	CCGATGGGAGCTGCAATGAGGGGCTGGGCGACGTGCGAGATGGTGGTGGGGCGG	1035
Db	737	CCGATGGGAGCTGCAATGAGGGGCTGGGCGACGTGCGAGATGGTGGTGGGGCGG	796
OY	1036	ATGACTTTAGAGAGTCAAGAGCTGCGGCTGTGCGCAGGCTATGCTATGNGGATGGA	1095
Db	797	ATGACTTTAGAGAGTCAAGAGCTGCGGCTGTGCGCAGGCTATGCTATGNGGATGGA	856
OY	1096	GCAACACACAGTTTCTCCAGTGGCTATGTGAGATGGAAGTGAAGTTGACCGGCTGAGGG	1155
Db	857	GCAACACACAGTTTCTCCAGTGGCTATGTGAGATGGAAGTGAAGTTGACCGGCTGAGGG	916
OY	1156	CCTTCAGAGCTATCAGAGTCCAGTGAACAACATGACACAGCTGGGACCCGCTGCTCGT	1215
Db	917	CCTTCAGAGCTATCAGAGTCCAGTGAACAACATGACACAGCTGGGACCCGCTGCTCGT	976
OY	1216	GCGGGGTGATATGCTTCCGGGTGGGCCCTTGCATAGGCTGTGGGAGGGAGCCCATG	1275
Db	977	GCGGGGTGATATGCTTCCGGGTGGGCCCTTGCATAGGCTGTGGGAGGGAGCCCATG	1035
OY	1276	GCCACAACCTTAGGGGGCAACTGGGGGACCCCAAGCCCGGGCTGTCAAGTGCCTTG	1335
Db	1037	GCCACAACCTTAGGGGGCAACTGGGGGACCCCAAGCCCGGGCTGTCAAGTGCCTTG	1096
OY	1336	GCGGCGATGAGGCTTCTGTGAGATGCCGCTCTTGTGGGGGCCCTGTGTTACTCT	1395

Db	109	GGGGCCGTGTGGCTGCCTTCTTGCACTGCCCTTCTCTTTCGGGGGCCCTGGTTACTCT	1156
QY	1396	TCAGCAAAATCTCTTCATCTCTGATGTGTGAACAATTCCTCTCCGGACACTGGGAGCA	1455
Db	1157	TCAGCAAAATCTCTTCATCTCTGATGTGTGAACAATTCCTCTCCGGACACTGGGAGCA	1216
QY	1456	CCTTCCCGCAGCCCCCTGTGTGGCGCCTGGCCCACTCCACCAATTCAGACGTTGG	1515
Db	1217	CCTTCCCGCAGCCCCCTGTGTGGCGCCTGGCCCACTCCACCAATTCAGACGTTGG	1276
QY	1516	AGCTGAGCCAGAGGCGCAGACCGCGTGGGCCAAGGCGAAGGGGAGCCCGAACCCGCAATCC	1575
Db	1277	AGCTGAGCCAGAGGCGCAGACCGCGTGGGCCAAGGCGAAGGGGAGCCCGAACCCGCAATCC	1336
QY	1576	TCATCGGCTGCCCTGGTGGGCAATCATCTCTCTCTGTCTCATCTTGGCCCTCATGCTCT	1633
Db	1337	TCATCGGCTGCCCTGGTGGGCAATCATCTCTCTCTGTCTCATCTTGGCCCTCATGCTCT	1396
QY	1636	GGCGGCTGCATGGCGCGAGGCTCTCAGCAAGGCTGAACGAGGAGTGTGGAAGAGAGC	1695
Db	1397	GGCGGCTGCATGGCGCGAGGCTCTCAGCAAGGCTGAACGAGGAGTGTGGAAGAGAGC	1455
QY	1696	TGACGGTTACCTCTCTGTCCCTGGGGGACACTATCTCATCAACAACGGCCAGTCTTA	1755
Db	1457	TGACGGTTACCTCTCTGTCCCTGGGGGACACTATCTCATCAACAACGGCCAGTCTTA	1516
QY	1756	GAGAGCAACCCCGTACACGAGAGCCCGGCGCTGTGGGAATCGCGGCCACTCCGCTCCT	1815
Db	1517	GAGAGCAACCCCGTACACGAGAGCCCGGCGCTGTGGGAATCGCGGCCACTCCGCTCCT	1576
QY	1816	GTGTCCCAATGGCTGTGTGTGTCTCTCCATTCAGACCTAACCGCTCTTGAGCCA	1875
Db	1577	GTGTCCCAATGGCTGTGTGTGTCTCTCCATTCAGACCTAACCGCTCTTGAGCCA	1636
QY	1876	CTTAAGCCCGTCCCGCTGAGGCGCGGGGCGCCCGCCACACCGCGCTGGGCAACCCACCA	1935
Db	1637	CTTAAGCCCGTCCCGCTGAGGCGCGGGGCGCCCGCCACACCGCGCTGGGCAACCCACCA	1696
QY	1936	ACACCAGAGCCCTACAGTGGGGACTATATGAGACCTGAAGAAGCAGAGCGCCCGCTTGTGC	1995
Db	1697	ACACCAGAGCCCTACAGTGGGGACTATATGAGACCTGAAGAAGCAGAGCGCCCGCTTGTGC	1756
QY	1996	CCCCACCTTCCAGAACAGACGCTCCCCATATATGCCGAGGCTGACATTGTACCTGCAAG	2055
Db	1757	CCCCACCTTCCAGAACAGACGCTCCCCATATATGCCGAGGCTGACATTGTACCTGCAAG	1816
QY	2056	GGGTACACGGGGGGAACAACATATGCTGTGCTGACATCCCGCCAGAGGCACTGGGCGATG	2115
Db	1817	GGGTACACGGGGGGAACAACATATGCTGTGCTGACATCCCGCCAGAGGCACTGGGCGATG	1876
QY	2116	GGCCCCCAGAGTGTATTTCCCTCATATGCACTCCGCTTAAGGAGAAAGTTGGGCGAG	2175
Db	1877	GGCCCCCAGAGTGTATTTCCCTCATATGCACTCCGCTTAAGGAGAAAGTTGGGCGAG	1936
QY	2176	GCCATTGGGGAGGTGCACCTGTGTGAGTGCAGACGCCCTCAAGATCTGGTCACTTG	2235
Db	1937	GCCATTGGGGAGGTGCACCTGTGTGAGTGCAGACGCCCTCAAGATCTGGTCACTTG	1996
QY	2236	ATTTCGCCCTAATATGTGGGTAAAGGACACCTTTGCTGTGTAGCTGTCAAAATCTTAAGGC	2295
Db	1997	ATTTCGCCCTAATATGTGGGTAAAGGACACCTTTGCTGTGTAGCTGTCAAAATCTTAAGGC	2056
QY	2296	CAGATGCACCAAGATGCCAGCTTCTCTGTCTCCAGAGATGATTTCTCTGAAGAGG	2355
Db	2057	CAGATGCACCAAGATG-----CCAGAGATGATTTCTCTGAAGAGG	2098
QY	2356	TGAAGATCATGTGAGGCTCAAGAGACCCCAACATCATTCGGCTCTGGGCGTGTGTGC	2415
Db	2099	TGAAGATCATGTGAGGCTCAAGAGACCCCAACATCATTCGGCTCTGGGCGTGTGTGC	2158
QY	2416	AGGAGGAGCCCGCTGTGATGTATCTGACTACATGAGAAAGCGGACCTCAACCACTTCC	2475
Db	2159	AGGAGGAGCCCGCTGTGATGTATCTGACTACATGAGAAAGCGGACCTCAACCACTTCC	2218

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QY 2476 TCAGTCCACAGCTGGAGGACAAAGGACCGAGGGGCCCCCTGGGGAGGGGAGCTG 2535
DB 2219 TCAGTCCACAGCTGGAGGACAAAGGACCGAGGGGCCCCCTGGGGAGGGGAGCTG 2278
QY 2536 GCGAGGGGCCCCACATCAGCTACCCAACTGCTGATGTGGAGCCCAAGATGCTCCG 2595
DB 2279 GCGAGGGGCCCCACATCAGCTACCCAACTGCTGATGTGGAGCCCAAGATGCTCCG 2338
QY 2596 GCATCGCTATCTGCGCACACTCAACTTTGTACATCGGGAGCCCTGGGACCGGAACTGCC 2655
DB 2339 GCATCGCTATCTGCGCACACTCAACTTTGTACATCGGGAGCCCTGGGACCGGAACTGCC 2398
QY 2656 TAGTTGGGAAAAATTTCACATCAAAATCGCAGACTTTGGCATGTAGCCGGAACCTCTATG 2715
DB 2399 TAGTTGGGAAAAATTTCACATCAAAATCGCAGACTTTGGCATGTAGCCGGAACCTCTATG 2458
QY 2716 CTGGGAGCTATTTACGCTGTGAGGGGCGGGGAGCTGCTGCCATCCGCTGGATGCGCTGG 2775
DB 2459 CTGGGAGCTATTTACGCTGTGAGGGGCGGGGAGCTGCTGCCATCCGCTGGATGCGCTGG 2518
QY 2776 AGTGCATCTCATGGGGAAGTTTCACAGCTGGAGAGAGTGGGGGCTTTGGTGTGACCC 2835
DB 2519 AGTGCATCTCATGGGGAAGTTTCACAGCTGGAGAGAGTGGGGGCTTTGGTGTGACCC 2578
QY 2836 TGTGGAGAGCTGCTGATGCTGTAGAGGGCCAGACCTTTGGGAGCTCACCGGAGAGG 2895
DB 2579 TGTGGAGAGCTGCTGATGCTGTAGAGGGCCAGACCTTTGGGAGCTCACCGGAGAGG 2638
QY 2896 TCATCGAGAACGCGGGGAGTTCTTCGCGGACAGAGGCGGAGGTGTACCTGTCCCGG 2955
DB 2639 TCATCGAGAACGCGGGGAGTTCTTCGCGGACAGAGGCGGAGGTGTACCTGTCCCGG 2698
QY 2956 CGCCTGCTGCGCGGAGGCTATATGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTG 3015
DB 2699 CGCCTGCTGCGCGGAGGCTATATGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTG 2758
QY 3016 AGCAGGACCAACCTTTTCCAGCTGCATCGGTTCCCTGGAGAGGATCAGTCAACAGG 3075
DB 2759 AGCAGGACCAACCTTTTCCAGCTGCATCGGTTCCCTGGAGAGGATCAGTCAACAGG 2818
QY 3076 TGTAAATCAGATCAGCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3135
DB 2819 TGTAAATCAGATCAGCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2878
QY 3136 CTAATAAGAGGACAAAGGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3195
DB 2879 CTAATAAGAGGACAAAGGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2938
QY 3196 AATAGAGCAGTAGAGCTGAGTGGGCTGGGCCACACAGGAGCTGATCCCTTCTC 3255
DB 2939 AATAGAGCAGTAGAGCTGAGTGGGCTGGGCCACACAGGAGCTGATCCCTTCTC 2958
QY 3256 CCTTCTCGACACACTCTCATGTCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 3315
DB 2959 CCTTCTCGACACACTCTCATGTCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 2972
QY 3316 CCGACCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3375
DB 2973 CCGACCCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3032
QY 3376 AAGGCTGGGAGAAATATAGATAGACACTGAGCATGGCCATTGGAGCACTGGGGCCC 3435
DB 3033 AAGGCTGGGAGAAATATAGATAGACACTGAGCATGGCCATTGGAGCACTGGGGCCC 3092
QY 3436 ACTGGACACACTGATCTCTGAGAGGTGGCTGGG-CCCGAGCTTCTCTCTCTCTCAC 3494
DB 3093 ACTGGACACACTGATCTCTGAGAGGTGGCTGGG-CCCGAGCTTCTCTCTCTCTCAC 3152
QY 3495 ACATGGAGCCCACTGGCTGAGATCTGGGGGTGAGAGAGCAAGAGAGAGAAATG 3554
DB 3153 ACATGGAGCCCACTGGCTGAGATCTGGGGGTGAGAGAGCAAGAGAGAGAAATG 3212

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QY 3555 TTTCCCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3614
DB 3213 TTTCCCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3272
QY 3615 GAACACTGAGCTGGGGGTAGACCCGCCAGCCCTGCTGCTGCTGCTGCTGCTGCTGCTG 3674
DB 3273 GAACACTGAGCTGGGGGTAGACCCGCCAGCCCTGCTGCTGCTGCTGCTGCTGCTGCTG 3332
QY 3675 CAGCTGTTGAGTGAAGCTTCTTAAGCTTAAGCTTCTGAGTAATATTTGGAGT 3734
DB 3333 CAGCTGTTGAGTGAAGCTTCTTAAGCTTAAGCTTCTGAGTAATATTTGGAGT 3392
QY 3735 GGGGGGAAAGAGGAGCAAGGCGCCATAGCTTGGGGGTGGACATCTGAGTGTGCTG 3794
DB 3393 GGGGGGAAAGAGGAGCAAGGCGCCATAGCTTGGGGGTGGACATCTGAGTGTGCTG 3452
QY 3795 CACATTTGATTTTCTATATATGACCTGAGCTTGGGTTGTACATTTTGGGGGAGAGCAGAT 3854
DB 3453 CACATTTGATTTTCTATATATGACCTGAGCTTGGGTTGTACATTTTGGGGGAGAGCAGAT 3512
QY 3855 TTTTACACTAATATATGACCTGAGCTTGGGCAATTTAATCCCTGCACTAGGAGGTA 3914
DB 3513 TTTTACACTAATATATGACCTGAGCTTGGGCAATTTAATCCCTGCACTAGGAGGTA 3572
QY 3915 AATAAAGCTTGAATTTTCCACAAAAA 3953
DB 3573 AATAAAGCTTGAATTTTCCACAAAAA 3611

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# RESULT 4

```

US-09-925-297-279
Sequence 279, Application US/09925297
Patent No. US2002081659A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA105
CURRENT APPLICATION NUMBER: US/09/925,297
PRIOR FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05989
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
NUMBER OF SEQ ID NOS: 928
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 279
LENGTH: 2861
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (2861)
OTHER INFORMATION: n equals a,t,g, or c
US-09-925-297-279

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Query Match 70.3%; Score 2783.6; DB 10; Length 2861;  
 Best Local Similarity 99.0%; Pred. No. 0;  
 Matches 2833; Conservative 5; Mismatches 4; Indels 20; Gaps 3;

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QY 1093 GGACACACACAGCTTCTCCAGTGGCTATGTGGAGATGAGATTTGATTTGACCGGCTGA 1152
DB 1 GGACACACACAGCTTCTCCAGTGGCTATGTGGAGATGAGATTTGATTTGACCGGCTGA 60
QY 1153 GGGCTTCCAGGCTATGACGTCAGTCACTGTAACAACATGCAACAGCTGGGAGCCGCTGCG 1212
DB 61 GGGCTTCCAGGCTATGACGTCAGTCACTGTAACAACATGCAACAGCTGGGAGCCGCTGCG 120
QY 1213 CTGGCGGGGTGGAATGTGCTTCCGGGCTGGCCCTGTCATGGCTGGGAGGAGGCCCA 1272
DB 121 CTGGCGGGGTGGAATGTGCTTCCGGGCTGGCCCTGTCATGGCTGGGAGGAGGCCCA 180
QY 1273 TGGGCCCAACCTAGAGGGGGAACCTGGGGGAGCCCGAGGCGCTGCTCAGTGGCCC 1332

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Db 181 TGCGCCACACCTAGGGGGGCAAGCTGGGGGAGCCCAAGAGCCCGGCTGTCTCACTGCCCC 240
Qy 1333 TTGGCGGCGCTGTGGCTGCTTCTTGCAAGTGGCCGCTCTCTTTGGCGGGGCGCTGTATC 1392
Db 241 TTGGCGGCGCTGTGGCTGCTTCTTGCAAGTGGCCGCTCTCTTTGGCGGGGCGCTGTATC 300
Qy 1393 TCTTTCAGGAAATCTCTTCTATCTCTGATGTGGTGAACAAATTCCTTCGCCGACTGGAG 1452
Db 301 TCTTTCAGGAAATCTCTTCTATCTCTGATGTGGTGAACAAATTCCTTCGCCGACTGGAG 360
Qy 1453 GCACCTTCCGCGAGCCCGCTGTGGCGGCGCTGGCCGACCTCCGACCAACTTGAGAGCT 1512
Db 361 GCACCTTCCGCGAGCCCGCTGTGGCGGCGCTGGCCGACCTCCGACCAACTTGAGAGCT 420
Qy 1513 TGAAGCTGAGCCCAAGAGCCAGAGCCGCTGGCCAAAGGCGAGGGAGCCGACCCCA 1572
Db 421 TGAAGCTGAGCCCAAGAGCCAGAGCCGCTGGCCAAAGGCGAGGGAGCCGACCCCA 480
Qy 1573 TCCATATCGGCTGGCTGTGGCTGCTATCTGCTGCTGCTGCTATCATTTGCCCTCATGC 1632
Db 481 TCCATATCGGCTGGCTGTGGCTGCTATCTGCTGCTGCTGCTATCATTTGCCCTCATGC 540
Qy 1633 TCTTGGCGGCTGCACTGGCGAGGCTCTCAGCAAGGCTGAACGAGGAGGTGTGAAGAG 1692
Db 541 TCTTGGCGGCTGCACTGGCGAGGCTCTCAGCAAGGCTGAACGAGGAGGTGTGAAGAG 600
Qy 1693 AGCTGACGGTTCACCTCTGTCTGTGGGAGCACTATCTCATCAACACCGCCAGATC 1752
Db 601 AGCTGACGGTTCACCTCTGTCTGTGGGAGCACTATCTCATCAACACCGCCAGATC 660
Qy 1753 CTANAGAGCAACCCCGCTTACCAAGAGCCCGGCGCTGTGGGAATCCGCCCCACTGCCCTC 1812
Db 661 CTANAGAGCAACCCCGCTTACCAAGAGCCCGGCGCTGTGGGAATCCGCCCCACTGCCCTC 720
Qy 1813 CCTGTGTCCCAATAGGCTGTGGCTGTGCTCTCAATTCAGGCTTACGCGCTCTTGG 1872
Db 721 CCTGTGTCCCAATAGGCTGTGGCTGTGCTCTCAATTCAGGCTTACGCGCTCTTGG 780
Qy 1873 CCATTAAGCGCCGCTGCGCTGAGAGCCCGGCGCCCGCCACACCGCGCTGGGCCCAACCA 1932
Db 781 CCATTAAGCGCCGCTGCGCTGAGAGCCCGGCGCCCGCCACACCGCGCTGGGCCCAACCA 840
Qy 1933 CCACACACCAAGGCTTAAGTGGGGAGCTATATGAGGCTGAGAGCCAGCGCGCCGCTTC 1992
Db 841 CCACACACCAAGGCTTAAGTGGGGAGCTATATGAGGCTGAGAGCCAGCGCGCCGCTTC 900
Qy 1993 TGCCCCACCTCCCCAGACAGGCTGCCCATTAAGCGAGGGCTGATTAACCTGC 2052
Db 901 TGCCCCACCTCCCCAGACAGGCTGCCCATTAAGCGAGGGCTGATTAACCTGC 960
Qy 2053 AGGGCGTACCGGGGGGCAACCTATGCTGTGCTGCACTGCCCGCAGGGGCAAGTGGGG 2112
Db 961 AGGGCGTACCGGGGGGCAACCTATGCTGTGCTGCACTGCCCGCAGGGGCAAGTGGGG 1020
Qy 2113 ATGGGGCCCCCAAGTGGATTTCCCTGATCTGACTCCGCTTCAGAGGAGCTGGCG 2172
Db 1021 ATGGGGCCCCCAAGTGGATTTCCCTGATCTGACTCCGCTTCAGAGGAGCTGGCG 1080
Qy 2173 AGGGCCAGTTTGGGAGAGTGCACCTGTGAGGTGAGCGAGCCGCAAGATCTGTAGTC 2232
Db 1081 AGGGCCAGTTTGGGAGAGTGCACCTGTGAGGTGAGCGAGCCGCAAGATCTGTAGTC 1140
Qy 2233 TTGATTTCCCTTAATATGCTGTAAGGAGACCCCTTGTGTAGTGTCAAGATCTTAC 2292
Db 1141 TTGATTTCCCTTAATATGCTGTAAGGAGACCCCTTGTGTAGTGTCAAGATCTTAC 1200
Qy 2293 GGGCAGATGCGCCAAAGATGCCAGCTTCTCTTGTTCAGAGATGATTTCTGGAAG 2352
Db 1201 GGGCAGATGCGCCAAAGATGCCAGCTTCTCTTGTTCAGAGATGATTTCTGGAAG 1242
Qy 2353 AGGTGAAGATCATGTGAGGCTCAAGGAGCCCAACATCATTTGGGCTGTGTG 2412
Db 1243 AGGTGAAGATCATGTGAGGCTCAAGGAGCCCAACATCATTTGGGCTGTGTG 1302
Qy 2413 TGCAGAGAGACCCCTCTGATGATTACTGACTACATGAGAGAGCGGAGCTCAACAGT 2472
Db 1303 TGCAGAGAGACCCCTCTGATGATTACTGACTACATGAGAGAGCGGAGCTCAACAGT 1362
Qy 2473 TCTCATGCCCCACAGCTGAGAGACAGGAGCGGAGCGGCGCTGGGGAGCGGAGG 2532
Db 1363 TCTCATGCCCCACAGCTGAGAGACAGGAGCGGAGCGGAGCGGCGCTGGGGAGCGGAGG 1422
Qy 2533 CTGGCAGAGGGGCCACCATCATGCTACCAATGCTGTGATGTGGAGCCCAATGCTCT 2592
Db 1423 CTGGCAGAGGGGCCACCATCATGCTACCAATGCTGTGATGTGGAGCCCAATGCTCT 1482
Qy 2593 CCGGCATGCGCTATCTGGCCACACTCACTTGTACATCGGGAGCTGGCCAGCGGAGT 2652
Db 1483 CCGGCATGCGCTATCTGGCCACACTCACTTGTACATCGGGAGCTGGCCAGCGGAGT 1512
Qy 2653 GCTTGTGGGAGAAATTTCCATCAAAATGCGAGACTTTGGCATGAGCCGGAACCTCT 2712
Db 1543 GCTTGTGGGAGAAATTTCCATCAAAATGCGAGACTTTGGCATGAGCCGGAACCTCT 1602
Qy 2713 ATGCTGGGAGTATTACGCTGTGAGGCGGAGAGTGTGCCATCGCTGGATGGCT 2772
Db 1603 ATGCTGGGAGTATTACGCTGTGAGGCGGAGAGTGTGCCATCGCTGGATGGCT 1662
Qy 2773 GGGAGTCAATCTCATGAGGAGTTCACGACTGGAGTGAAGTGTGGGCTTTGTGTGA 2832
Db 1663 GGGAGTCAATCTCATGAGGAGTTCACGACTGGAGTGAAGTGTGGGCTTTGTGTGA 1722
Qy 2833 CCTGTGGAGTGTCTGATGCTGTGAGGCGGAGCCCTTTGGCAGCTCACGAGAGC 2892
Db 1723 CCTGTGGAGTGTCTGATGCTGTGAGGCGGAGCCCTTTGGCAGCTCACGAGAGC 1782
Qy 2893 AGGTCAATGAGAACGCGGGGAGTTCCTCGGAGACAGGGCGGAGAGTGTACTGTCC 2952
Db 1783 AGGTCAATGAGAACGCGGGGAGTTCCTCGGAGACAGGGCGGAGAGTGTACTGTCC 1842
Qy 2953 GCGCGCTGCTGCGCCAGGCGCTATATGAGTGTGCTGTGGTGGAGCGGAGT 3012
Db 1843 GCGCGCTGCTGCGCCAGGCGCTATATGAGTGTGCTGTGGTGGAGCGGAGT 1901
Qy 3013 CTGAGCAGCAGCACCTTTTCCAGCTGATCGTCTGCGCAGAGAGTCACTCAACA 3072
Db 1902 CTGAGCAGCAGCACCTTTTCCAGCTGATCGTCTGCGCAGAGAGTCACTCAACA 1961
Qy 3073 CGGTGTAATTCACATCCAGCTGCCCTCCCTAAGGAGTGTATCCAGGGAGCCAGTG 3132
Db 1962 CGGTGTAATTCACATCCAGCTGCCCTCCCTAAGGAGTGTATCCAGGGAGCCAGTG 2021
Qy 3133 ACATAAAGAGAGAGACATGACACTGTGACCTTCCGCTCCGACAGCCCATACG 3192
Db 2022 ACATAAAGAGAGAGACATGACACTGTGACCTTCCGCTCCGACAGCCCATACG 2081
Qy 3193 TCTAATAGAGAGTGAAGTGAAGTGGGCTGGGCCACCAAGAGAGTGTGCCCTT 3252
Db 2082 TCTAATAGAGAGTGAAGTGAAGTGGGCTGGGCCACCAAGAGAGTGTGCCCTT 2141
Qy 3253 CTCCCTTCTGTGACACACTCATGCTCCCTTCTCTTCTTCTTCTTGAAGCCCTG 3312
Db 2142 CTCCCTTCTGTGACACACTCATGCTCCCTTCTCTTCTTCTTCTTGAAGCCCTG 2201
Qy 3313 TCGCCACACAGTGTGCTGTGGATGGATGCTCTGACGCTCTTACGATCCCTTG 3372
Db 2202 TCGCCACACAGTGTGCTGTGGATGGATGCTCTGACGCTCTTACGATCCCTTG 2261
Qy 3373 GGGAGGGTGGGAGAAATATAGATAGACACTGGACATGGCCATTGGAGCACTGGGC 3432
Db 2262 GGGAGGGTGGGAGAAATATAGATAGACACTGGACATGGCCATTGGAGCACTGGGC 2321
Qy 3433 CCCACTGAGACACACTGATCTGTGAGAGTGTGCG -CCCAAGCTTCTCTCTCTGT 3491
Db 2322 CCCACTGAGACACACTGATCTGTGAGAGTGTGCGCCCAAGCTTCTCTCTCTGT 2381
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Db 901 CGCCACACCTAGAGGGGCAACCTGGGGGAGCCCAAGAGCCCGGGCTGTCTAGTGCCTT 960  
QY 1335 GGGGGCGGTGTGCTGCTTTCGACAGTGCCTTCTTTCGCGGGCCCTGTTACTC 1394  
Db 961 GGGGGCGGTGTGCTGCTTTCGACAGTGCCTTCTTTCGCGGGCCCTGTTACTC 1020  
QY 1395 TTGAGGAAATCTCTCATCTGTAGTGTGTAAATAATTCCTCTCCGGACAGTGGAGGC 1454  
Db 1021 TTGAGGAAATCTCTCATCTGTAGTGTGTAAATAATTCCTCTCCGGACAGTGGAGGC 1080  
QY 1455 ACCTTCCCGCCAGCCCTGTGTGGCCCTGTGGCCCACTTCCACCACTTCCAGAGCTTG 1514  
Db 1081 ACCTTCCCGCCAGCCCTGTGTGGCCCTGTGGCCCACTTCCACCACTTCCAGAGCTTG 1140  
QY 1515 GAGCTGAGAGCCGAGAGCCGAGAGCCGCTGTGGCCAGAGCCGAGAGCCGAGAGCCGC 1571  
Db 1141 GAGCTGAGAGCCGAGAGCCGAGAGCCGCTGTGGCCAGAGCCGAGAGCCGAGAGCCGC 1197

RESULT 6  
US-09-880-107-3369

; Sequence 3369, Application US/09880107  
; Patent No. US20020142981A1  
; GENERAL INFORMATION:  
; APPLICANT: Horne, Darci T.  
; APPLICANT: Vockley, Joseph G.  
; APPLICANT: Scherf, Dwe  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
; FILE REFERENCE: 44921-5028-WO  
; CURRENT APPLICATION NUMBER: US/09/880,107  
; CURRENT FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: US 60/211,379  
; PRIOR FILING DATE: 2000-06-14  
; PRIOR APPLICATION NUMBER: US 60/237,054  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 3950  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3369  
; LENGTH: 12010  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U48705  
; NAME/KEY: unsure  
; LOCATION: (1)..(12010)  
; OTHER INFORMATION: n = a or c or g or t  
US-09-880-107-3369

Query Match 24.0%; Score 950; DB 10; Length 12010;  
Best Local Similarity 89.7%; Pred. No. 1.5e-260;  
Matches 1139; Conservative 0; Mismatches 5; Indels 126; Gaps 6;

QY 2789 GGGGAGTTCAGAGTGCAGTGTGGGCTTTGGTGTGACCCCTGGGAGTGTCT 2848  
Db 10746 GGGGAGTTCAGAGTGCAGTGTGGGCTTTGGTGTGACCCCTGGGAGTGTCT 10805  
QY 2849 GATGCTGTGTAGGGCCAGCCCTTTGGCAGCTCACGAGCAGAGTCTATGAGAACGC 2908  
Db 10806 GATGCTGTGTAGGGCCAGCCCTTTGGCAGCTCACGAGCAGAGTCTATGAGAACGC 10865  
QY 2909 GGGGAGTTCCTTCCGGGACCAAGGCGG----- 2936  
Db 10866 GGGGAGTTCCTTCCGGGACCAAGGCGG----- 10925  
QY 2937 ----- 2936  
Db 10926 CGAGGCGGGGACAGAGGGGCGAGAGTTTTCATCTTGGAGACTAAAGTAATGTTCC 10985  
QY 2937 -----CAGTGTACTGTCCGGGCGGCTGCTGCCCGC 2970  
Db 10986 TGACTCTCAACACACTTCCNCAATNCAAGTGTACTGTCTCCGGGCGGCTGCTGCCCGC 11045

QY 2971 AGGGCTAATATGAGTGTATGCTTCTGCTGTGAGCCGGAGTGTGAGACAGCACACCT 3030  
Db 11046 AGGGCTAATATGAGTGTATGCTTCTGCTGTGAGCCGGAGTGTGAGACAGCACACCT 11105  
QY 3031 TTTCACAGCTGATCGGTTCTGTGAGAGATGACTCAACAGGTGTGATACACATC 3090  
Db 11106 TTTCACAGCTGATCGGTTCTGTGAGAGATGACTCAACAGGTGTGATACACATC 11165  
QY 3091 CAGCTGCCCTTCCCTAGAGGATGATCCAGGGGAAACGATGACTTAACAAAGAGAC 3150  
Db 11166 CAGCTGCCCTTCCCTAGAGGATGATCCAGGGGAAACGATGACTTAACAAAGAGAC 11225  
QY 3151 ACAATGGACACTCTG-CCTTCCCTCCGACAGCCCATACCTTAATAGAGCAGTGA 3209  
Db 11226 ACAATGGACACTCTG-CCTTCCCTCCGACAGCCCATACCTTAATAGAGCAGTGA 11285  
QY 3210 GACTGAGGTGGGCTGGGCCACCCAGAGAGTGTATGCCCTTCTCCCTGTGACAC 3269  
Db 11286 GACTGCA---GGCTGGGCCACCCAGAGAGTGTATGCCCTTCTCCCTGTGACAC 11341  
QY 3270 ACTCTCATGACCCCTTCTGTTCTTCTCTGAGAGCCCTGCTGCCACCAAGTGTGT 3329  
Db 11342 ACTCTCATGACCCCTTCTGTTCTTCTCTGAGAGCCCTGCTGCCACCAAGTGTGT 11401  
QY 3330 CCTGTGATGGGATCCTCTCCACCCCTCTCTAGCCATCCCTTGGGGAAGGTGGAGAA 3389  
Db 11402 CCTGTGATGGGATCCTCTCCACCCCTCTCTAGCCATCCCTTGGGGAAGGTGGAGAA 11461  
QY 3390 AATATGATATGACTGTGACATGAGCCATTTGAGACACTGTGGGCCACTGTGACACTG 3449  
Db 11462 AATATGATATGACTGTGACATGAGCCATTTGAGACACTGTGGGCCACTGTGACACTG 11521  
QY 3450 ATTCCGAGAGAGTGGTGGC-CGCCAGTCTCTCTCCCTGTGACACTGTGACACTG 3508  
Db 11522 ATTCCGAGAGAGTGGTGGC-CGCCAGTCTCTCTCCCTGTGACACTGTGACACTG 11581  
QY 3509 TGGCTGAGATCTGGGGGTGAGAGAGACAAAGAGAGAAATGTTCTGTGGCCG 3568  
Db 11582 TGGCTGAGATCTGGGGGTGAGAGAGACAAAGAGAGAAATGTTCTGTGGCCG 11641  
QY 3569 CTCCTGTACTTCTCTGACCTTGGGCTTCTCTCTCTCATCAGCTGAAACACTGGACT 3628  
Db 11642 CTCCTGTACTTCTCTGACCTTGGGCTTCTCTCTCTCATCAGCTGAAACACTGGACT 11701  
QY 3629 GGGGGTAGCCCGCCCGCCAGCCCTCAGTCA-CGCCCACTTCCCACTGTGACTGTGACT 3687  
Db 11702 GGGGGTAGCCCGCCCGCCAGCCCTCAGTCA-CGCCCACTTCCCACTGTGACTGTGACT 11761  
QY 3688 AGAATCTCTAAGCCTATACCTTCTGTGAGATAATTTGGGATTTGGGGGAGAAAGAG 3747  
Db 11762 AGAATCTCTAAGCCTATACCTTCTGTGAGATAATTTGGGATTTGGGGGAGAAAGAG 11821  
QY 3748 GAGCAAGGCCCATAGCCTTGGGGTTGACATCTCTAGTGTAGTCCCATTTGATTTT 3807  
Db 11822 GAGCAAGGCCCATAGCCTTGGGGTTGACATCTCTAGTGTAGTCCCATTTGATTTT 11881  
QY 3808 CTATATACCTTGGGTTGTATCTTTTGGGGGAGAGACACATTTTACATAATA 3867  
Db 11882 CTATATACCTTGGGTTGTATCTTTTGGGGGAGAGACACATTTTACATAATA 11940  
QY 3868 TATGAGCTTACCTTATGAGCAATTTAATCCCTGTGACTAGGAGGTATTAATAGGTG 3927  
Db 11941 TATGAGCTTACCTTATGAGCAATTTAATCCCTGTGACTAGGAGGTATTAATAGGTG 12000  
QY 3928 AGTTTTCAC 3937  
Db 12001 AGTTTTCAC 12010

RESULT 7  
US-09-355-815-5  
; Sequence 5, Application US/09355815  
; Publication No. US20030070184A1

GENERAL INFORMATION:  
APPLICANT: Vogel, Wolfgang  
APPLICANT: Pawson, Anthony  
TITLE OF INVENTION: LIGANDS FOR DISCOIDIN DOMAIN RECEPTOR TYROSINE KINASES  
FILE REFERENCE: 11757.36USNO  
CURRENT APPLICATION NUMBER: US/09/355,815  
CURRENT FILING DATE: 1999-09-09  
PRIORITY APPLICATION NUMBER: PCT/CA98/00093  
PRIORITY FILING DATE: 1998-02-05  
PRIORITY APPLICATION NUMBER: 60/041,578  
PRIORITY FILING DATE: 1997-02-06  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 5  
LENGTH: 3096  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-355-815-5

Query Match 16.2%; Score 642; DB 9; Length 3096;  
Best Local Similarity 56.5%; Pred. No. 8.2e-173;  
Matches 1534; Conservative 0; Mismatches 975; Indels 207; Gaps 10;

QY 349 TGGTCTGCTCTTGGTGGCAAGTGGAGATGCTGACATGAAGGACATTTGATCCCTCCA 408  
DB 379 TGGTCTGCTCTCTGCTGCTGCTATCTGATGTTCTGCAAAAGCTGACAGTTATCCACTA 438  
QY 409 AGTGGCGGATGCGCCGCGGATGACAGAGCCGACATCCACAGAGTGAATCTGCTT 468  
DB 439 TAGGCGGATGCTGCGGATGCTGAGAGCCAGATTCAGATGAGACATGACAGCTT 498  
QY 469 CCAGCTCTGCTGATGATTCACAGTCCGCGCCAGACAGAGTGGAGAGAGAGAGAGG 528  
DB 499 CCAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 558  
QY 529 ATGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 585  
DB 559 ATGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 618  
QY 586 TGGATATGACAGACATCCACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 645  
DB 619 TGGATATGACAGACATCCACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 678  
QY 646 GCGTGGGCAAGAGTCTCCGCGAGCTACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 705  
DB 679 GTCATGCGCATGCGATTTGCGCCCATATACAGATCAATTTACAGTCCGAGATGCGATGCT 738  
QY 706 GGAATGGGCTGGAAGAGCCGCTGGGATCAGAGAGTATCTCAGCAATGAGAGACCTGAGG 765  
DB 739 GGAATGCTGCTGCGGAGACGCTCATGGAAGAGTGTGATGGAATGATGATGATGATGATG 798  
QY 766 GAGTGGTGGTGAAGAGCTGGGCGCCCGCCCATATGTTCCGAGTGTGCTGCTGCTGCTGCTG 825  
DB 799 AATATTTCTTAAGAGCTGGAGCCCGCCCATATGTTCCGAGTGTGCTGCTGCTGCTGCTG 858  
QY 826 GGGCTGACCGGCTGATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 885  
DB 859 TCACGAGACACATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 918  
QY 886 ATGAGCTCTGCTTACACCGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 939  
DB 919 ATGGCTTGGTGTCTACATGCTCCAGCTGGGAGAGTGTGATGATGATGATGATGATGATGATG 978  
QY 940 CCGTATGCTGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 999  
DB 979 TCATTTATCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1037  
QY 1000 GTCTGCGGCGAGCTGCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1059  
DB 1038 --CTAGGCGCAATGACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1095  
QY 1060 TCGGCGCTGCGCGAGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1119

DB 1096 ACAAGTGTGGCCCGGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1155  
QY 1120 ATGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1179  
DB 1156 ACATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1215  
QY 1180 GTACACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1239  
DB 1216 GCAACACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1275  
QY 1240 GTGGCCCTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1299  
DB 1276 CTG---AAGCAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1332  
QY 1300 GGAACCCAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1359  
DB 1333 TCAACCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1392  
QY 1360 AGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1419  
DB 1393 AGTGTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1452  
QY 1420 ATG 1479  
DB 1453 ATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1495  
QY 1480 CGCTGCGGAGCTCCACCAACTTCAGAGCTTGGAGTGGAGGAGGAGGAGGAGGAGGAGGAGG 1539  
DB 1496 -----TAGGACCCACCAACTTATGATG 1518  
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DB 1519 CAGTGTAAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1578  
QY 1600 TCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1659  
DB 1579 TCTTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1638  
QY 1660 TCAGCAAGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1719  
DB 1639 TGGAGAGGCTTCTGCGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1698  
QY 1720 GGAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1779  
DB 1699 GTATTTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1731  
QY 1780 CCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1839  
DB 1732 CAGTACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1778  
QY 1840 TCGTCTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1899  
DB 1779 -----CCCTTGGCC 1788  
QY 1900 CCGGCGGCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1959  
DB 1789 CTGATACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1848  
QY 1960 ATATGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2019  
DB 1849 AGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1908  
QY 2020 CCGATTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2079  
DB 1909 CCGATTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1968  
QY 2080 CTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2136  
DB 1969 CAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2028  
QY 2137 CTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2196



Db 869 TGAGTCTCTGGCGTACCGGCGATGGGAAACAGGTCTGTGATGGAAACAGTAACCTTAT 928  
QY 765 GAGATGTGTCTGAAGACCTTGGGCCCCCATGTGTCGCCGATGGTTCCTTACCC 824  
Db 929 GATGATATCTTGAAGACTTGGAGCACCATGTGCGCAGATTGTGGCTTATCCCA 988  
QY 825 CGGGCTGACCGGGTATGATGTCTGTCTGCGGGTATGAGCTCTATGGCTGCTGAGG 884  
Db 989 GTCACTGACCACTTCATGAACTGTGCATGAGAGGTGAGCTTATGTGTGTGGCTA 1048  
QY 885 GATGACATCTCTTACACCGCCCTGTGGGGCAGACAAATGATTTATCTAGG----- 939  
Db 1049 GATGGCTGTGTCTTACATCTCTCAGCTGACAGCAAGTGTGACTCTCCCTGGAGGCTCC 1108  
QY 940 -CGGTGACCTTACAGACTCCACCTATGACGACATATACCTGGGCGAGCTGACATGAG 998  
Db 1109 ATCATTTATCTGAATGATTTCTGTATGATGAGAGTGTGGGTACAGCATGACTGAAGG 1168  
QY 999 GGTGTGGGCGACCTGACAGATGTGTGTGGGGCTGTGATGACTTTAGAAAGTCCAGAG 1058  
Db 1169 ---CTAGGCGAGTTACTGATGAGATATCCGGCTGTGATGATTTTACCAGACCCATGAA 1225  
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QY 1119 TATGTGAGATGAGATTTGATTTGACCGGCTGAGGCGCTTCCAGGCTATGAGGTCCAC 1178  
Db 1286 TTCAATGATCATTTTGAATTTTGCAGAAATTCAGAAATTTTACATCCATGAAGTCCAC 1345  
QY 1179 TGTAAACAATGACACACCTGGGAGCCGCTGTGCTGGCGGGGTGAATGTCTCCGG 1238  
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QY 1239 CGTGCCCTGTGCATGGCTGGGAGGGGAGGCCAATGCCCCACAACTTGGGGGCACTG 1298  
Db 1406 TCGG---AAGCCAGGAGTGGGAAACCACTGTGTCTACTTCCCTGGTCTCTGACGAT 1462  
QY 1299 GGGGACCCAGAGCCCGGGCTGTCTCACTGCCCCCTTGGCGCGCTGTGGCTGCTTCCG 1358  
Db 1463 GTGAACCCCAATGCGGCTTGTGTACAGGTGCCCTCCACACACGAAATGGCCAGTCCATC 1522  
QY 1359 CAGTGGCGCTCTCTTGTGGGGGCGCTGTACTCTTCAAGGAATCTCTTCACTCTCT 1418  
Db 1523 AAGGCAATATCCATTTTGGCGAGACGTGATGATGTTCAGAGAAATCACTTTCAATCA 1582  
QY 1419 GATGTGTAACAATTTCTCTCCGGACACTGGGAGGACCTTCCGCCCAAGCCCTGTGGG 1478  
Db 1583 GATCTGCAATGTATTAACAACCTGTGAGCCCTTCCACCTCTCC----- 1626  
QY 1479 CCGGCTGGCCACTCCACCAACTGAGAGCTGAGTGGAGCCAGGAGGAGGAGGAG 1538  
Db 1627 -----TATGGACCCCAACCACTTATGAT 1648  
QY 1539 CCGGTGGCCAGGCGGAGGAGGAGCCGACCCGATCTCATCGGCTGGCTGGTGGCCATC 1598  
Db 1649 CCCATGCTTAAAGTTGATGATGACAACATCGATTCGATTTGATTTGTGTGGTCCATC 1708  
QY 1599 ATCTGTCTGCTGCTGCTATCATGTCCTCATGCTGTGCGGCTGTGACCTGGCGAGCTC 1658  
Db 1709 ATCTTCACTGCTGCTGTATCATGTCATCATCTGTGGAGGCAAGTTCTGCGAGAAATG 1768  
QY 1659 CTCAGCAAGGCTGAAGGAGGAGGTGTGAAAGAGAGGCTTACCTGCTGTCTCT 1718  
Db 1769 CTGAAAGAGGCTTACAGGAGGATGCTGATGATGATGATGATGATGATGATGATGATG 1828  
QY 1719 GGGGACACTATCTCTCAACAACAACCGGAGCTGTAGAGAGCCACCCCTTACAGAGAG 1778  
Db 1829 AGGAGATGACAGATGATTAACAACCGGCTCTC-----ATCACCAAGTGAAGAGAG 1882  
QY 1779 CCGGCGCTGTGGGAGATCGGCCACTCGGCTCCCTGTGTGCCCAATGGTGTGCGTGG 1838  
Db 1883 TCCAACTCTTATGATGCAATCTTCCCTTGTGGCTGTACCAAGGAGCCATTCAGA 1942  
QY 1839 CTGCTCCCAATCCAGGCTTACCGCTCTCTTGTGGCCACTTACGCCCTGCCCTGAGGC 1898  
Db 1943 CTATATC----- 1948  
QY 1899 CCGGGCCCCCACACCCTGCGTGGCCAAACCCCAACAACCCAGGCTTACAGTGGGAGC 1958  
Db 1949 -----CGAAAGCTTCCAGATTTGCTTCCAGAGAGAGGA 1983  
QY 1959 TATATGAGGCTGAGAAAGCCAGGCGCCCGCTTCTGCCCCACCTCCAGAAACAGCTC 2018  
Db 1984 GTGAGGCTCAGTGTGTGTGTGAAGCGCGCC-----CAGCCCAATGAGACTGAGGCGTG 2038  
QY 2019 CCGCATTAAGCGAGGCTGACATTTTACCTGTGACAGGGGTGACCGGGGGCAACACTAT 2078  
Db 2039 CCGCATTAAGCAAGAACCCCAACATGAAATCTCCAGAGGAGTGCACAGTGGCAACACTAC 2098  
QY 2079 GCTGTGCTGTCACTGCCCCAG---GGGCAAGTGGGGATGGGGCCCCCAGAGTGGATTTC 2135  
Db 2099 TGTGTGCTGTGTATACATGATCTGTGTGTGGGAAAGATGTGCTGTGAAGATTC 2158  
QY 2136 CTTGATCTGACCTCGCTTCAAGAGAAAGCTTGGCGAGGCGCAGTTTGGGAGGTGAC 2195  
Db 2159 CCGAGAAACTGTGTGGCTTCAAGAGAAAGCTGGGAGAGGCGCAGTTTGGGAGGTCTAT 2218  
QY 2196 CTGTGTGAGTGTGACAGCCCTCAAGATCTGTGTGATCTTATTTCCCTTATGTGCT 2255  
Db 2219 CTGTGTGAAGTGTGAGGAAATGAAATTTCAAGAAAGAAATTTTGCATAGATGTCAAT 2278  
QY 2256 AAGGACACCTTGTGTGTGTGATCTTACAGATCTTACGGCGAGTGGCCACCAAGATGCG 2315  
Db 2279 GCGAACAGCTGTCTGT 2336  
QY 2316 AGCTTCTCTTGT 2375  
Db 2337 -----CGAGAAATGATTTTCTTAAAGAAATCAATCATGCTGTGCTC 2380  
QY 2376 AAGGACCCCAATATATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2435  
Db 2381 AAGGACCCCAATATATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2440  
QY 2436 ATTACTGATATGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2495  
Db 2441 ATCAAGGAATATGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2500  
QY 2496 GACAAAGGACGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2555  
Db 2501 A-----GTTCCTGT 2530  
QY 2556 TACCCATGT 2615  
Db 2531 TACGCAACCTGAAATTTATGCAACCCAGATGTGCTGTGTGTGTGTGTGTGTGTGTGTGT 2590  
QY 2616 CTCAACTTTGTACATCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2675  
Db 2591 CTCAACTTTGT 2650  
QY 2676 ATCAAAATGAGAGATTTGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2735  
Db 2651 ATCAAGATGATGATTTTGGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2710  
QY 2736 CAGGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2795  
Db 2711 CAGGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2770  
QY 2796 TTTACGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2855  
Db 2771 TTTACACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2830  
QY 2856 TGTAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2915  
Db 2831 TGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2890



Accession	Sequence	Position
QY	2316 TTTCTCCGGGAGCAGGAGCCGGCAGGTGACCTGTGCCGGCCGCGTGCCTGCTCCCGAGGCG	2975
Db	2891 TTCCTCCGAGACCCAGGAGGCGACATCTATCTCCCTCAACAGCCCTTTGCCCGACCTCT	2950
QY	2376 CTATATAGCTGATGCTTCGGTGTCTGGAGCCGGAGTGTGAGCAGCAGCACCCCTTTC	3039
Db	2951 GTGTATATAGCTGATGCTCAGCTGCTGGAGAGAGAAACAGCACCCGCGCATCTTCCAG	3010
QY	3036 CAGCTGCATCGGTTCTCTGGCAGAGATGCACTCAACAGGTGTGAATCA	3084
Db	3011 GAATATACACTCCCTGCTTCTTCAGCAGAGAGACCCAGTGTATGATCA	3059

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RESULT 9
US-09-815-343-505/c
Sequence 505, Application US/09815343
Patient No. US200100559661
GENERAL INFORMATION:
APPLICANT: Meagher, Madeleine
APPLICANT: Xu, Jlangchun
APPLICANT: King, Gordon E.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
FILE REFERENCE: 210121.504
CURRENT APPLICATION NUMBER: US/09/815,343
CURRENT FILING DATE: 2001-03-22
NUMBER OF SEQ ID NOS: 1556
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 505
LENGTH: 563
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)-(563)
OTHER INFORMATION: n - A,T,C or G
US-09-815-343-505

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Query Match	13.2%	Score 522.8;	DB 10;	Length 563;
Best Local Similarity	97.7%;	Pred. No. 4.8e-139;		
Matches 549;	Conservative 0;	Mismatches 11;	Indels 2;	Gaps 2

QY	511	TGGAGAGCGATACAGGGGATGGGGCC-TGGTGGCCCGAGGGTCCGGTTTCCC- 	-AAGGA	568
Db	562	TTAAAAACAGTACCGGGGATGGGGCTTGGTCCCGAGGGTGGTGGTTCCCAAGGA 	50303	
QY	569	GGAGAGTACTTGCAGGTGGATCTACAACGACTCCACCTGGTGGCTCTGGTGGGACCCA 	628	
Db	502	GAAGAGTACTTGCAGGTGGATCTACAACGACTCCACCTGGTGGTGGTGGGACCCA 	443	
QY	629	GGAGAGGATGCGGGGGGCGTGGGCGAAGGATTTCTCCCGAGCTACCGGCTGGCTTACTC 	688	
Db	442	GGAGAGGATGCGGGGGGCGTGGGCGAAGGATTTCTCCCGAGCTACCGGCTGGCTTACTC 	3833	
QY	689	CCGGAGTGGTCCGCTGGATGGGCTGGAAAGGACCGCTGGGGGTAGAGAGTGAATCAGG 	748	
Db	382	CCGGAGTGGTCCGCTGGATGGGCTGGAAAGGACCGCTGGGGGTAGAGAGTGAATCAGG 	323	
QY	749	CATATAGGACCTGAGGGAGTGGTGGCTGAAAGGACCTTGGGCCCCCATGGTTCCCGACT 	808	
Db	322	CATATAGGACCTGAGGGAGTGGTGGCTGAAAGGACCTTGGGCCCCCATGGTTCCCGACT 	263	
QY	809	GGTGGCTTCTACCCCCGGGCTGACCGGGGTATCAGTGTGCTGGGGGTAAAGCTCTA 	868	
Db	262	GGTGGCTTCTACCCCCGGGCTGACCGGGGTATCAGTGTGCTGGGGGTAAAGCTCTA 	203	
QY	869	TGGCTGGCTCTGAGAGGATGGAGTCTGTCTTACACCGCCCTGTGGGGCAGACAATGTA 	928	
Db	202	TGGCTGGCTCTGAGAGGATGGAGTCTGTCTTACACCGCCCTGTGGGGCAGACAATGTA 	143	
QY	929	TTTATCTAGGCGGTGTAAGTCAACGACTCCACTATGAGGACATACGCTGGGCGGACT 	988	
Db	142	TTTATCTAGGCGGTGTAAGTCAACGACTCCACTATGAGGACATACGCTGGGCGGACT 	83	

QY	989	GCAATATGCGGGGCTGTGGGCCAGCTGCGCAGATGTGTGGTGGGGCGATGACTTTAGGAA	1048
Dd	82	GCAATATGCGGGGCTGTGGGCCAGCTGCGCAGATGTGTGGTGGGGCGATGACTTTAGGAA	23
QY	1049	GAGTCAGAGAGCTGGGGGCTGCG	1070
Dd	22	GAGTCAGAGAGCTGGGGGCTGCG	1

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RESULT 10
US-09-771-161A-14
: Sequence 14, Application US/09771161A
: Patent No. US2002011081A1
: GENERAL INFORMATION:
:
: APPLICANT: LEVINE, et al.
: TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
: FILE REFERENCE: 802620-2005.1
: CURRENT APPLICATION NUMBER: US/09/771,161A
: CURRENT FILING DATE: 2001-01-26
: PRIOR APPLICATION NUMBER: 09/7724,676
: PRIOR FILING DATE: 2000-11-28
: PRIOR APPLICATION NUMBER: 135776
: PRIOR FILING DATE: 2000-06-15
: PRIOR APPLICATION NUMBER: 135619
: PRIOR FILING DATE: 2000-04-12
: NUMBER OF SEQ ID NOS: 273
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 14
: LENGTH: 2063
: TYPE: DNA
: ORGANISM: Homo sapiens
:
: US-09-771-161A-14

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Query Match	9.1%	Score 361.4	DB 10	Length 2083
Best local Similarity	57.0%	Pred. No. 9	7e-93	
Matches 802; Conservative	0	Mismatches 536	Indels 69	Gaps 5

QY 34 TCGTGTGCTCTTGGTGGCAAGTGGAGATGCTGACATGMAAGGACATTTGATCTCCCA 408  
 Db 379 TGGTGTCTTCTGCTGCTGACCTATCTTGAAGTTCGAAAAGCTCAGGTTATATCAGCTA 438  
 QY 409 AGTGGCGGTATGCCCTGGGGCATGCAAGACCGGACCATCCCAAGACATGACATCTCTCTT 468  
 Db 439 TATGCCGCTATCTCTTGGGCATGTGAGAGGCCAGATGCCAGATTCAGATGAGACATCCACCTT 498  
 QY 469 CCAGCTCTCTGTGCAGATTCCACTGCGCGCGCCCAAGCAGAGTTGGAGAGCAGTACGGGG 528  
 Db 499 CCAGTCAGTGGTCAGAGTCCACAGCTGTGCCAATATGGAAGGCTGTGACTCAGAAAGAGGG 558  
 QY 529 ATGGGGGCTGTGTGCCCGCAGGGTGTGGTTCCTCCAMAGA--GAGGAGTACTTGCAAG 585  
 Db 559 ATGGAGCCTGTGGTCCCTCAGATTCCAGTGGAACTGATGACCTMAAGAGTTCTGCAGA 618  
 QY 586 TGGATCTACAAAGCATGCTCACCCTGGGTGCTGGTGGGACCCAGAGAGGAGATGGCGGG 645  
 Db 619 TTGACTTGCACACCTCCATTTATCACTCTGGTGGGGACCCAGAGGGCCCATTCAGAGAG 678  
 QY 646 GCTTGGGCAAGAGTTCTCCCGGAGCTACGGGCTGCTTACTCCCGGAGTGGTGCCGCT 705  
 Db 679 GTCATGGCATCAGATTGCCCCCATGTCAAGATCAATTACAGTCGGGATGGCACCTGCT 728  
 QY 706 GGATGGGCTGGAAGGACGCTGGGGTCAAGAGGTGATTCAGCGAATGAGAGACCTGAGG 765  
 Db 739 GGATCTCTTGGCGGGAACCTCATGGGAACAAGGCTGTGATGGAAATGTAACCCCTATG 798  
 QY 766 GAGTGTGCTGAAGACCTTGCGGCCCCCATGTTGCCAGACTGTTGCTTACCCCC 825  
 Db 799 ACATTTTCTTAAAGGACTTGGAGCGGCCCATTTGAGCAGATTGTCCGGTCAATTCAG 858  
 QY 826 GGGCTGACCGGGGTATGATGCTGTCTGGCGGGTANAGCTTATGGTGTGCTCTGGAGGG 885  
 Db 859 TCACCGACCACTCCATGATATGTGTATGAAAGTGGAGCTTAAAGGCTGTGTGTGGCTAG 918

QY 886 ATGACCTCTGCTTACACCCGCTGTGGGACACATGATTATTCAGG----- 939  
 DB 919 ATGGCTGTGCTTACATGCTCAGCTGGGACACATTTTACTCCCTGAGGTTCCA 978  
 QY 940 CCGGTACTTACAGACTTCACATGACGACATACCGTGGGAGACTGACATGAGG 999  
 DB 979 TCATTATTCATGATGCTGCTGCTGATGAGGAGTGTGATGACGATGACAGAGG- 1037  
 QY 1000 GTCGGGACCTGGGACATGCTGTGGGCTGGGCTGATGACTTTAGAGAGCTCAGAC 1059  
 DB 1038 --CTAGGCCAATGACGATGCTGTGCTGGCTGACGATTTCCACACCATGAT 1095  
 QY 1060 TCGGGTCTGGCCAGCTATGATGATGATGAGACACACAGCTTCTCCAGTGGT 1119  
 DB 1096 ACCAGGTGTGGCCGCTGACATGATGAGGCTGGGACAGAGAGTCCACCAATGGCT 1155  
 QY 1120 ATGTGAGATGAGCTTGTGATTTGACCGGCTGAGGCGCTTCAGGCTATGACGTC 1179  
 DB 1156 ACATTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1215  
 QY 1180 GTACCAATGACACACGCTGGGAGCCGCTGCTGCTGGGCTGATGATGCTTCCG 1239  
 DB 1216 GCAACCAATGATTTGCTAAAGGTGTAAGATCTTAAAGAGTACAGTCTACTCC 1275  
 QY 1240 GTGGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1299  
 DB 1276 CTG---AAGCCAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 1332  
 QY 1300 GGGACCCCAAGAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1359  
 DB 1333 TCAACCCCAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1392  
 QY 1360 AGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1419  
 DB 1393 AGTGTCAATACCATTTTGTGATGATGATGATGATGATGATGATGATGATGAT 1452  
 QY 1420 ATGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1479  
 DB 1453 ATGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1495  
 QY 1480 GCGCTGGCCCACTCCACCACTTTCAGACGCTTGGAGCTGGAGCCGACAGCC 1539  
 DB 1496 -----TATGGCACCCACCACTATGATC 1518  
 QY 1540 CCGGACCAAGGCGAGGAGGAGCCGACCCGACCTCATGCTGCTGCTGCTGCTGCT 1599  
 DB 1519 CAATGCTTAAAGTATGATGACGACCACTGCTGATGCTGCTGCTGCTGCTGCT 1578  
 QY 1600 TCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1659  
 DB 1579 TCCTTATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1688  
 QY 1660 TACGCAAGCTGACGAGGCTTGTGAGAGAGGAGCTGACGCTTCTGCTGCTG 1719  
 DB 1639 TGGAGAGGCTTCTCGAGAGGATGCTGATGATGATGATGATGATGATGATGAT 1698  
 QY 1720 GGGACACTATGCCATCAACACCCG 1746  
 DB 1699 GTGATCTAGCATGTTCAACAAATGACC 1725

RESULT 11  
 US-10-060-036-2378  
 ; Sequence 2378, Application US/10060036  
 ; Publication No. US20030073144A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Kados, Michael D.  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Persing, David H.  
 ; APPLICANT: Hepler, William T.  
 ; APPLICANT: Jiang, Yugu

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; FILE REFERENCE: 210121.566  
 ; CURRENT APPLICATION NUMBER: US/10/060,036  
 ; CURRENT FILING DATE: 2002-01-30  
 ; NUMBER OF SEQ ID NOS: 4560  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 2378  
 ; LENGTH: 305  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-060-036-2378  
 Query Match 7.6%; Score 301.8; DB 9; Length 305;  
 Best Local Similarity 99.3%; Pred. No. 5e-76;  
 Matches 303; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 3520 CTGGGGGTGAGAGGACAAAGAGAGGAAATGTTCTGCTGCTGCTGCTGCT 3579  
 DB 1 CTGGGGGTGAGAGGACAAAGAGAGGAAATGTTCTGCTGCTGCTGCTGCTGCT 60  
 QY 3580 GTCTCAGCTTGGGCTTCTCTCTCCATCAGTCACTGAAACACTGGACCTGGGG 3639  
 DB 61 GTCTCAGCTTGGGCTTCTCTCTCCATCAGTCACTGAAACACTGGACCTGGGG 120  
 QY 3640 GCGCCAGCCCTCAGTCACTGCACTGCACTGCACTGCACTGCACTGCACTGCA 3699  
 DB 121 GCGCCAGCCCTCAGTCACTGCACTGCACTGCACTGCACTGCACTGCACTGCA 180  
 QY 3700 AGCCATGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3739  
 DB 181 AGCCATGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240  
 QY 3760 ATAGCTTGGGTTGACATCTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT 3819  
 DB 241 ATAGCTTGGGTTGACATCTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGT 300  
 QY 3820 GGGGT 3824  
 DB 301 GGGGT 305

RESULT 12  
 US-10-060-036-4529  
 ; Sequence 4529, Application US/10060036  
 ; Publication No. US20030073144A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Benson, Darin R.  
 ; APPLICANT: Kados, Michael D.  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Persing, David H.  
 ; APPLICANT: Hepler, William T.  
 ; APPLICANT: Jiang, Yugu

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; FILE REFERENCE: 210121.566  
 ; CURRENT APPLICATION NUMBER: US/10/060,036  
 ; CURRENT FILING DATE: 2002-01-30  
 ; NUMBER OF SEQ ID NOS: 4560  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 4529  
 ; LENGTH: 305  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-060-036-4529

Query Match 7.6%; Score 301.8; DB 9; Length 305;  
 Best Local Similarity 99.3%; Pred. No. 5e-76;  
 Matches 303; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 3520 CTGGGGGTGAGAGGACAAAGAGAGGAAATGTTCTGCTGCTGCTGCTGCT 3579  
 DB 1 CTGGGGGTGAGAGGACAAAGAGAGGAAATGTTCTGCTGCTGCTGCTGCTGCT 60



Query Match 5.9%; Score 232.8; DB 10; Length 387;  
 Best Local Similarity 82.5%; Pred. No. 2.8e-56;  
 Matches 315; Conservative 0; Mismatches 62; Indels 5; Gaps 4;

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OY 3453 CCTGAGAGGTTGGGCGC--GCCCCAGCTTCTCTCCCTGTGACACACTGGACCCACTG 3510
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 386 CCTGAGAGAGGCTGCGCCGCCAGCCTCTCTTCCGTCCACACATTGGACCCACTG 327
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 3511 GCTGAGATCTGGG-GGTGAGAGAGACAAGAGAGAGAAATGTTCTCTGTGCTCC 3569
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 326 GCTGAGATTTGGGAGAGAGAGACAAAGAGAGAGAGGGGTTCCCTGTATCTCC 267
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 3570 TCCTGTACTTGTCTCAGCTTGGGCTTCTCTCTCCATCAGCTGAACAAGTGA 3629
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 266 TCCTGGAATTCCTCAGCTTGGGCTTCTCTCTCCATCTCTGAAACAAGTGA 207
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 3630 GGGGT-AGCCCCGCCAGCCCTCAGTACCCCACTTCCCACTTGCAATCTTGA 3688
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 206 GGGGTGATCCCTACCCCACTTCTGCTCCCACTCCCACTGCGGTGTGAGCTA 147
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 3689 GAATCTCTAAGCTTATAGTTCTGTGAGTAATATTTGGATT-GGGGGAAAGAG 3747
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 146 GAATCTCTCAAGCTTATATTTCTGTGAAATAGTATTTGGATTAGCGGGAAACAG 87
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 3748 GAGCAAGGCCCATAGCTTGGGTTGGACATCTCTAGTGTAGTCCACATTGATT 3807
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 86 GAGCAAGGCCCTGTGGCCCTGGGTTGGACATCTCTAGTGTAGTCCACATTGATT 27
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 3808 CTATATCATCTTGGGTTTGA 3829
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 26 CTATATCATCTTGGGTTTGA 5
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 Job time : 506 secs